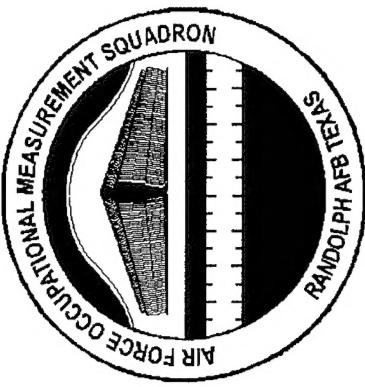


UNITED STATES AIR FORCE  
**TRAINING  
EXTRACT**



20030905 132

AFSC 3C1X1 - ANG/AFFRC  
RADIO COMMUNICATIONS SYSTEMS  
ANG/AFFRC  
OSSN 2521  
April 2003

OCCUPATIONAL ANALYSIS PROGRAM  
AIR FORCE OCCUPATIONAL MEASUREMENT SQUADRON  
AIR EDUCATION and TRAINING COMMAND  
1550 5TH STREET EAST  
RANDOLPH AFB, TEXAS 78150-4449

APPROVED FOR PUBLIC RELEASE: DISTRIBUTION UNLIMITED

<b>CODAP Study Number:</b>	<b>2521</b>
<b>Study Title:</b>	<b>Radio Communications Systems</b>
<b>AFSC (s) :</b>	<b>3C1X1 - ANG/AFRC</b>
<b>AFOMS Analyst:</b>	<b>2Lt Sabrina Ocampo</b>
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<b>Office/DSN:</b>	<b>AFOMS/OAE, 487-6811, Ext 3019</b>
<b>Job Inventory Date:</b>	<b>June 2002</b>
<b>OSR Date:</b>	<b>April 2003</b>
<b>Training Extract Date:</b>	<b>April 2003</b>

## THE TRAINING EXTRACT

The enclosed Training Extract has been compiled to assist you in making training decisions. It is comprised of a series of computer printouts which show data collected from your specialty. By learning to understand this document and how it applies to training programs, you will find it to be a valuable source of information.

### READING THE TRAINING EXTRACT

**TABLE OF CONTENTS:** The first page of the Training Extract lists a Table of Contents. The Table of Contents reports five things:

1. Report Number - shows the number and sequence of computer products in the Training Extract.
2. Element - shows the report ID of each computer product in the Training Extract. These numbers are of use only to OMSQ personnel.
3. Program - shows the types of computer products included in the Training Extract. Usually there will be three types listed: (1) PRIMOD, (2) VARSUM, and (3) PRTFAC. Each type of printout will be discussed in more detail below.
4. Report Title - describes the general contents of each computer product included in the Training Extract.
5. Page Number - shows the page on which the respective products begin. These numbers are located at the bottom center of the page.

### TYPES OF COMPUTER PRODUCTS:

**PRIMOD:** This computer product can display occupational survey data in a variety of ways. Primary displays included in most Training Extracts are:

- (1) in job inventory order (by duty)
- (2) in STS order
- (3) in POI order

The first page of each PRIMOD contains information which is useful primarily to OMSQ Analysts. Of primary interest to the user is the "Description of Reported Task Factors" section at the bottom of the page. This section lists the full titles and the number of members in each data group represented across the various columns of the printout. The actual data display begins on page 2 of the individual printout. This page begins with an introductory paragraph which describes the type of data contained in the product. The actual data follows the introductory paragraph. For information on groups or task factors displayed in the column headings, refer to the listing on page 1. When a column heading describes a group of incumbents, the numbers listed below represent the percent of group members who are performing the task listed at the left-hand side of the page. Where the column heading describes a task factor such as Training Emphasis, Task Difficulty, or Automated Training Indicator (ATI), the numbers below represent the value of that task factor for the given task.

Training emphasis refers to the importance of providing training of the given task in some type of formal structured training program, such as resident technical training schools, field training, or formal OJT. It only applies to recommended training for first-enlistment personnel (those with 1-48 months TAFMS) or, in the case of lateral career ladders, first-assignment or first-job personnel (those with 1-48 months TICF). It does not apply when examining advanced courses for a career ladder. Tasks which senior career ladder personnel believe should be trained for first-enlistment personnel have high training emphasis values, while those tasks which they believe do not require formal training have low training emphasis values.

Task difficulty refers to the length of time required for the average job incumbent to learn to perform a task. Task difficulty ratings are always standardized so that tasks having average task difficulty have a mean of 5.0. Tasks with values above 5.0 are considered more difficult to learn than those with values below 5.0.

**VARSUM:** While the PRTMOD product provides data on the various tasks being performed, the VARSUM product presents information concerning the responses of career ladder incumbents to the various background questions in the job inventory. Page 1 of the VARSUM lists the groups which are displayed on the product, showing a group ID number, group title, and number of people in the group. These group identities define the groups which comprise the column headings on each page of the VARSUM product. Along the left-hand side of each page, you will see a series of variable numbers, followed by their respective descriptions (i.e. V0000 Equip Used - Automatic Film Processors). Each variable represents a response to a background question. For background questions which allow multiple responses, each response is given below the variable number. In most cases, only the "yes" responses will be displayed. The numbers to the right of each response represent the percentage of the given group (as identified on the first page of the product) who gave that particular response to the question.

**PRTFAC:** This product is very similar to the PRTMOD in that it displays percentages of people performing tasks, as well as Training Emphasis, Task Difficulty, and Automated Training Indicator (ATI) data. The PRTFAC product however, is used to display task data in descending order of some task factor, such as training emphasis. The two primary PRTFAC products included in the Training Extract display inventory tasks in descending order of Training Emphasis value, and inventory tasks in descending order of the computed Automated Training Indicator (ATI) value.

To help in interpreting Training Emphasis ratings shown on several of the data products, standardized abbreviations are used. These abbreviations are as follows:

MEAN = Average Training Emphasis Rating  
1 SD = 1 Standard Deviation above Mean Training Emphasis Rating  
2 SD = 2 Standard Deviations above Mean Training Emphasis Rating

ABOVE AVG = "ABOVE AVERAGE" in Training Emphasis; Tasks that fall between the Mean and 1 SD  
HIGH = "HIGH" in Training Emphasis; Tasks that fall between 1 SD and 2 SD  
VERY HIGH = "VERY HIGH" in Training Emphasis; Tasks that fall above 2 SD

This document has been designed and prepared as a final summary document containing data printouts which were used in analyzing the occupational survey data collected on this AFSC. We hope this brief summary assists you in utilizing the data presented in this Training Extract. If you need additional information that is not contained in this Extract, please feel free to contact one of our analysts at DSN 487-6811 for assistance.

## T A B L E   O F   C O N T E N T S

Page 1

Report	Element	Program	Title	Page
1.	RP0149	prtmod	AFSC 3C1X1 ANG/AFRC Data Displayed in Inv Order	PM0008 1
2.	RP0150	prtmod	STS 3C1X1 Displayed with ANG/AFRC Data	PM0009 14
3.	RP0151	varsun	Background info - 3C1X1 ANG Equip DAFSC Groups	VS0016 66
4.	RP0152	varsun	Background info - 3C1X1 AFRC Equip DAFSC Groups	VS0017 84

## Report Option Table for Modules

Option	Status
Primary Sort	Inventory Sequence
Secondary Sort	Not Used
Print Suppress	Not Used

## Report Option Table for Tasks

Option	Status
Primary Sort	Inventory Sequence
Secondary Sort	Not Used
Print Suppress	Not Used

## Description of Reported Module Factors

Col	Factor	Source vector	Title	Module Statement	Description of Reported Task Factors						
					Number Members	Mean	----- Based on All Tasks Within Range	S.D.	Max	Min	Valid
1	TITLE			Task Statement							
2	F0012	GP0012/PMP	All Air Guard Airmen with DAFSC 3C1X1	69	21.26	14.33	84.06	.00	370		
3	F0013	GP0013/PMP	All Air Guard Airmen with DAFSC 3C151	28	16.25	14.51	89.29	.00	370		
4	F0014	GP0014/PMP	All Air Guard Airmen with DAFSC 3C171	35	22.73	17.64	85.71	.00	370		
5	F0015	GP0015/PMP	All Air Guard Airmen with DAFSC 3C191	6	36.04	33.34	100.00	.00	370		
6	F0016	GP0016/PMP	All Air Reserve Airmen with DAFSC 3C1X1	87	28.11	18.72	81.61	.00	370		
7	F0017	GP0017/PMP	All Air Reserve Airmen with DAFSC 3C151	35	22.06	19.21	77.14	.00	370		
8	F0018	GP0018/PMP	All Air Reserve Airmen with DAFSC 3C171	47	33.33	20.04	82.98	.00	370		
9	F0019	GP0019/PMP	All Air Reserve Airmen with DAFSC 3C191	5	21.35	22.67	100.00	.00	370		

AFSC 3C1X1 tasks are presented in USAF Job Inventory order under Duty Headings.

The percent of ANG/AFRC DAFSC group members performing each task is presented to the right of each task.

Note that tasks are listed in alphabetical order under each Duty heading so that tasks may be easily located and cross-referenced. Differences between groups may be highlighted where there are large differences in percent members performing each task across the various groups.

D T Tsk Y Nbr	Task Title	ANG			ANG			AFRC			AFRC		
		TOT	5	7	9	TOT	5	7	9	TOT	5	7	9
A SETTING UP RADIO EQUIPMENT													
A0001	Connect or disconnect antenna couplers	57	79	49	0	72	69	74	80				
A0002	Connect or disconnect antennas to radio equipment	65	89	54	17	75	77	74	60				
A0003	Connect or disconnect commercial power supplies	39	50	34	17	46	31	53	80				
A0004	Connect or disconnect computer equipment	54	64	46	50	72	69	72	100				
A0005	Connect or disconnect cryptographic equipment	68	79	60	67	70	69	68	100				
A0006	Cut antenna lengths	17	21	17	0	41	37	47	20				
A0007	Install grounding systems	33	36	34	17	60	66	57	40				
A0008	Key or zeroize secure cryptographic systems	84	79	86	100	82	77	83	100				
A0009	Preset dual-tone multifrequency (DTMF) controlled receivers or transmitters	10	18	6	0	17	17	19	0				
A0010	Rotate antennas using radio dial codes or azimuth control boxes	14	29	6	0	23	23	26	0				
A0011	Select antennas using antenna matrix systems or patch panels	7	11	3	17	13	9	17	0				
A0012	Select back-up receivers or transmitters	29	43	20	17	38	31	47	0				
A0013	Select frequency-of-optimum transmissions (FOTS)	22	32	17	0	43	43	45	20				
A0014	Select transmit power	33	43	31	0	41	37	47	20				
A0015	Set time generators on recorders	6	11	0	17	1	0	2	0				
A0016	Set up antenna masts	61	82	51	17	68	69	70	40				
A0017	Set up controlled safety or security areas	35	36	29	67	60	63	60	40				
A0018	Set up facsimile transmission equipment	20	11	23	50	38	37	40	20				
A0019	Set up high frequency (HF), very high frequency (VHF), ultrahigh frequency (UHF), or extremely high frequency (EHF) mobile satellite antennas	49	61	46	17	64	69	66	20				
A0020	Set up land mobile radio (LMR) networks	19	25	17	0	45	49	47	0				
A0021	Set up LMR repeater networks	10	21	3	0	33	31	38	0				
A0022	Set up mobile international maritime satellite (INMARSAT) equipment	12	25	3	0	30	31	30	20				
A0023	Set up mobile HF, VHF, or EHF satellite transceivers	35	43	31	17	57	60	60	20				
A0024	Set up patch panels	9	18	3	0	6	3	9	0				
A0025	Set up phone patch equipment	17	18	20	0	16	6	26	0				

Prtnod	T	Task	Task Title	ANG TOT	ANG 5	ANG 7	ANG 9	AFRC TOT	AFRC 5	AFRC 7	AFRC 9
	Y	Nbr									
A0026			Set up radio equipment	52	61	51	17	74	77	74	40
A0027			Set up or operate auxiliary generators, such as fixed, mobile, or transportable	22	21	23	17	51	46	55	40
A0028			Site radio antennas or equipment	45	57	43	0	61	60	64	40
A0029			Tune receivers, transceivers, or transmitters	46	54	49	0	52	49	57	20
A0030			Verify keying of cryptographic equipment	68	46	83	83	71	69	74	60
A0031			Verify radio nets for tactical or non-tactical radios	26	25	29	17	52	54	55	0
A0032			Verify or load equipment presets	36	46	29	33	55	49	66	0
<hr/>											
B			CONFIGURING RADIO EQUIPMENT								
B0033			Adjust antenna tuning units	25	36	20	0	33	29	40	0
B0034			Change receiver, transceiver, or transmitter frequencies manually or by remote control	32	36	34	0	55	51	60	40
B0035			Change recorder-receiver pairings	1	4	0	0	0	0	0	0
B0036			Configure ancillary equipment for operations	14	14	17	0	33	29	40	0
B0037			Configure computers for data operations	28	39	17	33	41	43	40	40
B0038			Configure consoles for back-to-back operations	14	14	14	17	5	6	4	0
B0039			Configure consoles for clear voice operations	16	18	14	17	16	17	17	0
B0040			Configure consoles for switchboard dial code operations	3	7	0	0	1	3	0	0
B0041			Configure consoles or terminals for Milstar operations	3	4	3	0	2	6	0	0
B0042			Configure consoles or terminals for phone patch operations	9	14	6	0	9	6	13	0
B0043			Configure equipment for duplex or simplex operations	12	7	17	0	18	9	28	0
B0044			Configure facsimile equipment	13	7	14	33	32	31	34	20
B0045			Configure Hammer Rapid Initial Communications Kit (RICK) equipment for voice or data communications	6	4	9	0	1	3	0	0
B0046			Configure line printers	12	7	11	33	32	29	38	0
B0047			Configure radios for demand assigned multiple access (DAMA) operations	20	18	26	0	40	37	45	20
B0048			Configure terminals for alternate or net control station (NCS) operations	12	11	14	0	24	29	23	0
B0049			Configure terminals for cross-banding	7	11	6	0	5	9	2	0
B0050			Configure terminals for multiple-hop operations	10	18	3	17	16	17	17	0
B0051			Configure terminals for slave-to-master operations	7	14	3	0	7	9	6	0
B0052			Configure transceivers for back-to-back operations	9	7	11	0	5	9	2	0
B0053			Configure transceivers for clear or secure voice operations	30	32	26	50	43	37	51	0
B0054			Configure transceivers for Have Quick operations	14	14	9	50	16	17	17	0
B0055			Configure transceivers for phone patch operations	13	7	20	0	16	6	26	0
B0056			Configure transceivers for secure radio data transfer	26	29	20	50	41	40	47	0
B0057			Configure transceivers for switchboard dial code operations	1	4	0	0	1	3	0	0
B0058			Configure transportable switchboard or telephone equipment for phone patch, secure voice data, or switchboard dial code operations	9	11	9	0	10	11	11	0
B0059			Reconfigure antennas	42	50	43	0	52	51	53	40

D	T	Task	Task Title	Y	Nbr
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## C MAINTAINING RADIO EQUIPMENT

- C0060 Change computer diskettes or tapes
- C0061 Change paper in high-speed printers
- C0062 Change or store magnetic media or recording tapes
- C0063 Clean facsimile equipment
- C0064 Clean printers
- C0065 Clean radio equipment filters
- C0066 Clean recorder-reproducer heads
- C0067 Degauss recording tapes
- C0068 Inspect communications equipment cables or cable connections
- C0069 Operate or maintain recording devices
- C0070 Perform operational checks of ancillary equipment
- C0071 Perform operational checks of radio systems
- C0072 Repair antennas, other than tactical antennas
- C0073 Repair tactical antennas
- C0074 Replace radio system components, such as bulbs or fuses

## D PERFORMING RADIO OPERATIONAL PROCEDURES

- D0075 Authenticate message traffic using transmission authentication systems
- D0076 Authenticate stations using challenge-and-reply systems
- D0077 Broadcast radio transmissions
- D0078 Check stations into or out of net
- D0079 Conduct command, control, communications countermeasures (C3CM) using operating procedures
- D0080 Conduct data or voice transmissions using universal coordinated time (UCT)
- D0081 Conduct data transmission using phonetic alphabet
- D0082 Conduct data transmission using prosigns
- D0083 Conduct data transmission using prowords
- D0084 Conduct net roll calls or polls
- D0085 Conduct phone patches automatically or manually
- D0086 Coordinate aircraft positions with direction-finding (DF) facilities
- D0087 Coordinate spectrum interferences with DF facilities
- D0088 Determine operating frequencies
- D0089 Determine types of spectrum interferences
- D0090 Direct users to tune to your count
- D0091 Encode or decode messages automatically or manually
- D0092 Identify incoming calls using call-sign lists

Part/Mod	Task ID	Task Title	ANG	ANG	ANG	AFRC	AFRC	AFRC	AFRC	
	Y Nbr		TOT	5	7	9	TOT	5	7	9
D	D0093	Identify missent or misrouted messages	14	7	23	0	28	26	32	0
	D0094	Implement spectrum interference countermeasures	12	7	14	17	24	17	32	0
	D0095	Impose or lift radio silence	22	18	29	0	37	31	43	20
	D0096	Notify stations of frequency changes	30	32	34	0	48	40	55	40
	D0097	Perform conference call procedures	12	14	9	17	16	11	21	0
	D0098	Perform contingency alternate routing procedures	10	7	14	0	15	9	21	0
	D0099	Perform hand printing techniques	29	18	37	33	44	34	51	40
	D0100	Perform microphone techniques in radio communications	33	29	43	0	46	40	51	40
	D0101	Perform radio checks	48	50	49	33	67	66	70	40
	D0102	Perform signal testing in radio communications	38	54	31	0	47	37	55	40
	D0103	Perform three-way call procedures	14	11	20	0	13	6	19	0
	D0104	Perform time hacks	36	29	46	17	55	46	64	40
	D0105	Prepare messages using Automatic Digital Network (AUTODIN) or Defense Message Service (DMS) format	10	4	11	33	14	11	17	0
	D0106	Prepare messages using Emergency Action Message (EAM) format	19	21	17	17	24	11	34	20
	D0107	Prepare messages using Foxtrot format	12	18	9	0	13	9	17	0
	D0108	Prevent false distress signals	13	7	20	0	24	17	32	0
	D0109	Prevent transmission of obscene or indecent language	29	21	40	0	51	49	53	40
	D0110	Receive and relay aircraft emergencies	14	25	6	17	20	17	23	0
	D0111	Receive and relay departure reports	12	18	6	17	23	23	26	0
	D0112	Receive and relay execution checklist messages	12	18	6	17	16	11	21	0
	D0113	Receive and relay position reports	12	18	6	17	22	17	28	0
	D0114	Receive, transmit, or relay broadcasts	28	36	23	17	41	46	43	0
	D0115	Receive, transmit, or relay messages	36	46	31	17	54	51	62	0
	D0116	Record and report spectrum interference incidents	26	14	34	33	24	11	36	0
	D0117	Reset EAM alarms	7	14	3	0	9	6	13	0
E	E TROUBLESHOOTING RADIO EQUIPMENT									
	E0118	Identify antenna system malfunctions	41	57	34	0	60	54	66	40
	E0119	Identify computer equipment malfunctions	38	32	43	33	45	40	49	40
	E0120	Identify console malfunctions	12	18	6	17	14	17	13	0
	E0121	Identify cryptographic equipment malfunctions	45	36	49	67	55	57	57	20
	E0122	Identify digital electronic switches (DES) malfunctions	6	11	3	0	7	0	13	0
	E0123	Identify DMS malfunctions	7	11	3	17	9	6	13	0
	E0124	Identify facsimile equipment malfunctions	16	11	17	33	30	31	30	20
	E0125	Identify fixed, mobile, or transportable generator malfunctions	13	14	14	0	39	34	43	40
	E0126	Identify Hammer RICK equipment malfunctions	6	4	9	0	1	0	2	0
	E0127	Identify line printer malfunctions	16	14	14	33	33	29	36	40
	E0128	Identify LMR malfunctions	23	25	20	33	48	40	57	20
	E0129	Identify LMR repeater malfunctions	9	7	11	0	34	34	38	0
	E0130	Identify Milstar false alarms or advisories	6	11	3	0	1	3	0	0
	E0131	Identify receiver, transceiver, or transmitter malfunctions	20	14	29	0	45	43	47	40
	E0132	Identify recording equipment malfunctions	10	18	6	0	7	0	13	0

Prtnod	T	Tsk	Task Title	ANG	ANG	ANG	AFRC	AFRC	AFRC	AFRC
	T	Y Nbr		TOT	5	7	TOT	5	7	9
E0133			Identify telephone malfunctions	17	11	23	17	37	26	47
E0134			Identify terminal malfunctions	13	18	11	0	14	9	19
<b>F PERFORMING COMBAT CREW COMMUNICATIONS ACTIVITIES</b>										
F0135			Assemble, issue, retrieve, or break down daily training communication kits	39	14	49	100	43	46	40
F0136			Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits	35	11	43	100	40	37	40
F0137			Assemble, issue, retrieve, or break down single integrated operations plan (SIOP) communication kits	35	7	46	100	26	23	30
F0138			Assemble, issue, retrieve, or update flight information publication (FLIP) bags	23	7	29	67	29	26	32
F0139			Brief aircrews on communications procedures	35	14	40	100	29	26	32
F0140			Conduct aircrew or missile crew premission briefings or postmission debriefings	22	4	26	83	18	11	23
F0141			Conduct exercise or contingency briefings or debriefings	26	7	29	100	31	20	36
F0142			Conduct SIOP or safe passage communications training	30	7	37	100	25	17	32
F0143			Construct or maintain combat mission folders (CMFs)	26	7	31	83	22	17	26
F0144			Create exercise or contingency communications F1IMSYS	29	7	34	100	22	23	21
F0145			Issue, load, or retrieve time standard modules (TSMS) to aircrews	10	11	6	33	7	6	6
F0146			Issue, load, retrieve or zeroize transfer modules	20	11	20	67	24	23	26
F0147			Issue, load, or retrieve cryptographic equipment	48	14	69	83	45	43	45
F0148			Issue or retrieve Identification Friend or Foe (IFF) or Special Identification Feature (SIF) codes	30	4	43	83	24	23	26
F0149			Operate transfer module service sets (TMSS)	4	4	3	17	7	6	6
F0150			Review air tasking documents	23	4	26	100	20	14	23
F0151			Review flying schedules	29	4	37	100	28	23	32
<b>G PERFORMING SATELLITE COMMUNICATIONS (SATCOM) ACTIVITIES</b>										
G0152			Configure consoles or terminals for secure or nonsecure voice or data communications	26	21	26	50	29	26	34
G0153			Configure modems for narrowband operations	10	11	11	0	14	14	15
G0154			Configure Satellite Communications (SATCOM) subsystems	14	18	14	0	18	14	23
G0155			Configure SATCOM systems for random operations	16	25	11	0	22	14	30
G0156			Configure SATCOM systems for single-channel transponder systems (SCTSS)	16	21	14	0	13	11	15
G0157			Configure SATCOM systems for time division multiplex (TDM) Mode I operations	7	11	6	0	8	6	11
G0158			Configure SATCOM systems for TDM Mode II operations	4	7	3	0	7	6	9
G0159			Establish communications links with command centers	14	21	6	33	32	37	30

D T Tsk Y Nbr	Task Title	ANG TOT	ANG 5	ANG 7	ANG 9	ANG TOT	ANG 5	ANG 7	ANG 9	AFRC TOT	AFRC 5	AFRC 7	AFRC 9
G0160	Establish communications links with master control centers	12	14	11	0	24	26	26	26	0	6	11	0
G0161	Establish communications links with mission monitors	9	11	9	0	20	26	17	0	0	6	17	0
G0162	Establish communications links with on-station aircraft	3	4	3	0	16	20	15	0	0	6	15	0
G0163	Establish communications links with primary control centers	7	11	6	0	26	29	28	0	0	6	21	0
G0164	Initiate or terminate satellite commands	4	7	3	0	24	23	28	0	0	6	21	0
G0165	Load SATCOM command post synchronizers	7	14	0	17	8	6	6	11	0	0	6	11
G0166	Load terminal software	7	7	6	17	16	17	17	0	0	0	17	0
G0167	Operate status display units (SDUS)	3	4	3	0	3	0	0	0	0	0	6	0
G0168	Perform antenna position control functions	13	14	14	0	23	20	28	0	0	0	20	0
G0169	Perform satellite look-angle procedures	13	18	11	0	18	14	23	0	0	0	14	0
G0170	Perform selective message routing procedures	3	4	3	0	15	9	21	0	0	0	9	0
G0171	Perform van set up procedures	7	7	9	0	1	0	2	0	0	0	0	2
G0172	Queue messages	10	7	14	0	21	23	21	0	0	0	23	0
G0173	Reconfigure SATCOM systems for operations in degraded conditions	7	11	6	0	14	6	21	0	0	0	6	21
G0174	Reset terminal software	6	11	3	0	10	9	13	0	0	0	9	0
G0175	Set up or join Air Force Satellite Communication (AFSATCOM) nets	17	25	14	0	24	23	28	0	0	0	23	0
G0176	Store SATCOM messages	12	14	11	0	24	20	30	0	0	0	20	0
G0177	Transfer computer data using secure voice communications networks	16	25	11	0	32	29	38	0	0	0	29	0
G0178	Transmit SATCOM messages	23	29	23	0	39	37	45	0	0	0	37	0
<b>H PERFORMING MILSTAR SATELLITE COMMUNICATIONS ACTIVITIES</b>													
H0179	Configure Milstar terminals as antenna, communication, or net control	6	11	3	0	6	6	9	4	0	0	6	0
H0180	Configure Milstar terminals as beam management terminals	6	11	3	0	1	1	3	0	0	0	3	0
H0181	Configure Milstar terminals for DAMA operations	6	11	3	0	3	3	9	0	0	0	9	0
H0182	Establish or modify EHF acquisitions or log on parameters	6	11	3	0	0	0	0	0	0	0	0	0
H0183	Initiate bit procedures or tests	12	14	11	0	13	6	17	20	0	0	6	17
H0184	Log on or off Milstar networks or satellites	6	7	6	0	3	6	2	0	0	0	6	2
H0185	Perform anomaly resolution procedures	1	4	0	0	0	0	0	0	0	0	0	0
H0186	Perform breaking-the-chain (BTC) keying procedures	4	7	3	0	1	0	2	0	0	0	2	0
H0187	Perform cold start procedures	13	11	17	0	7	3	11	0	0	0	7	0
H0188	Perform DAMA procedures	25	29	26	0	24	23	28	0	0	0	23	0
H0189	Perform EHF network procedures	7	11	6	0	0	0	0	0	0	0	0	0
H0190	Perform Milstar emergency shutdown or reset procedures	4	7	3	0	0	0	0	0	0	0	0	0
H0191	Perform ephemeris update procedures	7	11	6	0	0	0	0	0	0	0	0	0
H0192	Perform manual key loading procedures	22	14	26	33	25	23	30	0	0	0	23	0
H0193	Perform message processing procedures	14	14	17	0	17	11	23	0	0	0	11	0
H0194	Perform over-the-air (OTAR) rekeying procedures	20	18	26	0	16	11	21	0	0	0	11	0
H0195	Perform point-to-point (PTP) call procedures	17	18	20	0	14	11	17	0	0	0	11	0

D Y	T Tsk Nbr	Task title	ANG TOT	ANG 5	ANG 7	ANG 9	ANG TOT	ANG 5	ANG 7	ANG 9	AFRC TOT	AFRC 5	AFRC 7	AFRC 9	AFRC TOT	AFRC 5	AFRC 7	AFRC 9
H0196		Perform Position Receiver (PLGR) procedures	9	14	6	0	3	3	4	0								
H0197		Perform satellite mission control procedures	4	7	3	0	6	3	9	0								
H0198		Perform single-channel transponder (SCT) procedures	7	14	3	0	0	0	0	0								
H0199		Perform spot beam procedures	6	7	6	0	1	0	0	0								
H0200		Perform terminal control procedures	10	14	9	0	1	0	0	0								
H0201		Perform terminal initialization procedures	10	14	9	0	0	0	0	0								
H0202		Perform Time Distribution Subsystem (TDS) or time Distribution Subsystem Preprocessor (TDSPP) procedures	7	11	6	0	1	0	0	0								
H0203		Prepare images using communication planning tools	9	11	9	0	2	0	2	0								
H0204		Set up baseband equipment	7	7	9	0	5	0	9	0								
H0205		Set up Communications Security (COMSEC) equipment	43	36	51	33	48	40	55	40								
H0206		Set up or tear down Milstar networks	7	11	6	0	2	6	0	0								
H0207		Set up or tear down Milstar PTP calls	6	7	6	0	1	3	0	0								
<hr/>																		
<b>I PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER (TO) SYSTEM ACTIVITIES</b>																		
I0208		Brief personnel on Non-secure Internet Protocol Routing Network (NIPRNET) or Secure Internet Protocol Routing Network (SIPRNET) usage	17	0	26	50	18	9	28	0								
I0209		Compile data for records, reports, logs, or trend analyses	25	14	29	50	28	14	40	0								
I0210		Complete accident or incident reports	23	14	23	67	38	34	43	20								
I0211		Coordinate frequency use with requestors or spectrum managers	19	11	23	33	25	20	30	20								
I0212		Destroy classified or COMSEC materials or documents	62	29	83	100	80	77	83	80								
I0213		Establish or maintain accountability records for classified or COMSEC materials or documents	64	36	80	100	71	63	77	80								
I0214		Extract call-signs	43	25	49	100	44	23	60	40								
I0215		Identify and report suspected security compromises, messages, or documents	57	29	71	100	64	54	72	60								
I0216		Initiate classified reports, messages, or documents	41	11	54	100	44	29	55	40								
I0217		Initiate requests for temporary duty (TDY) orders	23	11	26	67	39	31	45	40								
I0218		Initiate or maintain standby rosters or workercenter pyramid recall rosters	25	7	29	83	24	9	36	20								
I0219		Maintain administrative files	46	21	57	100	46	23	66	20								
I0220		Maintain data logs	49	36	57	67	43	37	49	20								
I0221		Maintain publications libraries, other than technical order (TO) libraries	32	18	34	83	30	17	40	20								
I0222		Maintain security or COMSEC forms for safes, containers, or rooms	48	25	60	83	64	51	74	60								
I0223		Maintain time compliance technical orders (TCMOs)	12	14	9	17	13	6	19	0								
I0224		Maintain TO libraries	16	18	9	50	16	6	26	0								
I0225		Maintain or update status indicators, such as boards, graphs, or charts	19	4	23	67	24	11	34	20								
I0226		Monitor frequencies for interference among users	14	18	11	17	30	31	30	20								

Prtnod	T Tsk Y Nbr	Task Title	ANG TOT	ANG	ANG	ANG	AFRC TOT	AFRC	AFRC	AFRC	AFRC
			5	7	9		5	7	9		
	I0227	Perform two-person integrity (TPI) procedures for top secret materials	22	21	20	33	16	20	15	0	
	I0228	Prepare administrative, classified, or COMSEC materials or documents for mailing, transporting, or issue	45	18	57	100	56	51	60	60	
	I0229	Prepare reports of security or COMSEC violations	30	14	34	83	57	49	66	40	
	I0230	Prepare reports of survey	16	7	11	83	33	17	47	20	
	I0231	Request permanent frequency changes	13	7	17	17	26	20	32	20	
	I0232	Research marking or processing classified materials directives	20	11	17	83	23	14	30	20	
	I0233	Research TOS to identify components or equipment	25	18	26	50	22	11	32	0	
	I0234	Review deficiency, service, or status reports	13	4	17	33	21	17	26	0	
	I0235	Review propagation aids or charts	17	14	20	17	36	31	38	40	
	I0236	Review publishing bulletins	16	4	20	50	24	14	32	20	
	I0237	Review recording tapes for radio procedures	4	4	6	0	15	11	19	0	
	I0238	Review traffic records	14	18	11	17	25	20	30	20	
	I0239	Store classified or COMSEC materials or documents, other than at deployed locations	45	21	54	100	59	49	68	40	
	I0240	Transport classified or COMSEC materials or documents	51	25	63	100	67	54	74	80	
	I0241	Update frequency allocation lists	12	0	14	50	26	26	28	20	
	I0242	Update end post lists, such as access or operator aids	29	11	34	83	30	20	36	40	
	I0243	Write minutes of briefings, conferences, or meetings	10	7	6	50	28	17	34	40	
	I0244	Write reports, such as after-action, outage, spectrum interference, or unit readiness	28	7	37	67	43	31	51	40	
	<b>J PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES</b>										
	J0245	Coordinate maintenance of equipment with appropriate agencies	33	18	40	67	33	23	40	40	
	J0246	Develop equipment checklists	39	29	40	83	46	34	57	20	
	J0247	Evaluate serviceability of equipment, tools, parts, or supplies	28	21	29	50	49	43	55	40	
	J0248	Identify and report equipment or supply problems	42	29	49	67	54	43	64	40	
	J0249	Initiate requisitions for equipment, tools, parts, or supplies	28	14	31	67	38	29	43	60	
	J0250	Inventory equipment, tools, parts, or supplies	49	39	51	83	55	46	64	40	
	J0251	Issue or log turns of equipment, tools, parts, or supplies	25	14	31	33	38	34	38	60	
	J0252	Maintain documentation on items requiring periodic inspections or calibrations	19	11	20	50	33	31	36	20	
	J0253	Maintain organizational equipment or supply records	16	11	14	50	36	31	40	20	
	J0254	Pick up, deliver, or store equipment, tools, parts, or supplies	25	21	23	50	46	40	51	40	
	J0255	Research supply requisition data, such as supply catalogs or master cross-reference listings (MCRLLs) as D-04, D-18, or M-30	9	7	6	33	15	3	23	20	
	J0256	Validate supply transaction listings or rosters, such	4	4	3	17	7	3	9	20	

D	T	Task	Task Title	Y	Nbr
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#### K PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES

			ANG TOT	ANG 5	ANG 7	ANG 9	ANG TOT	AFRC 5	AFRC 7	AFRC 9	AFRC TOT	AFRC 5	AFRC 7	AFRC 9
K0257	Assign personnel to mobility or contingency positions		10	7	6	50	16	3	23	40				
K0258	Brief deploying personnel		30	11	37	83	37	20	49	40				
K0259	Complete hazardous cargo shipping documents		17	11	20	33	29	23	30	60				
K0260	Complete OPLAN requirements status listings		17	11	14	67	15	9	19	20				
K0261	Compute OPLAN requirements status listings		10	0	9	67	13	6	17	20				
K0262	Conduct contingency operation/mobility planning and execution system (COMPES) programs		7	0	6	50	10	3	17	0				
K0263	Conduct mobility or deployment site surveys		14	4	17	50	32	23	40	20				
K0264	Coordinate deployment of personnel with other MAJCOMS or joint service commands		9	4	6	50	10	3	17	0				
K0265	Coordinate exercise sourcing requirements with functional managers		7	4	3	50	14	9	19	0				
K0266	Coordinate mobility or contingency requirements with appropriate agencies		9	4	6	50	15	9	19	20				
K0267	Coordinate specific source of personnel requirements with appropriate agencies		9	7	3	50	16	11	21	0				
K0268	Determine cost factors for support agreements		3	4	3	0	6	0	11	0				
K0269	Determine specific source of personnel requirements for deployment manning documents		4	4	3	17	8	6	11	0				
K0270	Develop contingency exercise mobility (CEM) orders		4	4	6	0	7	0	13	0				
K0271	Develop mobility inspection checklists		17	14	14	50	28	14	36	40				
K0272	Dispatch mobile radio units		6	4	6	17	26	20	32	20				
K0273	Don or doff chemical warfare personal protective clothing		52	14	74	100	63	46	77	60				
K0274	Erect tents		38	32	46	17	61	49	70	60				
K0275	Inspect mobility bags or kits		57	39	69	67	55	43	62	80				
K0276	Inspect packed or palletized mobility or contingency equipment prior to transport		30	11	49	17	41	23	49	100				
K0277	Maintain accountability of personnel selected to fill OPLAN requirements		17	4	23	50	16	6	23	20				
K0278	Maintain base OPLAN files		12	4	11	50	15	9	19	20				
K0279	Maintain disaster preparedness checklists		20	11	20	67	22	20	23	20				
K0280	Pack or palletize mobility or contingency equipment for shipment or movement		29	11	43	33	46	29	55	80				
K0281	Perform camouflage procedures		32	18	46	17	53	46	60	40				
K0282	Perform chemical warfare agent decontamination procedures		36	18	49	50	56	49	64	40				
K0283	Perform disease or pestilence countermeasures		17	11	23	17	30	34	30	0				
K0284	Perform explosive ordnance reconnaissance		16	7	17	50	43	31	53	20				
K0285	Perform plans file and mobility file matches		6	4	3	33	14	11	17	0				
K0286	Perform predeployment reconnaissance surveys		7	4	3	50	15	6	21	20				
K0287	Perform safety measures by marking radiation hazards or antenna systems		23	18	29	17	46	40	51	40				
K0288	Perform or set up site security		23	21	20	50	48	46	53	20				
K0289	Prepare equipment for deployments		46	25	54	100	64	57	70	60				

Prtnod	T	Task	Task Title	ANG TOT	ANG 5	ANG 7	ANG 9	AFRC TOT	AFRC 5	AFRC 7	AFRC 9
		K0290	Prepare hazardous cargo for deployment	26	18	29	50	34	23	40	60
		K0291	Prepare sites at deployed locations, such as cutting grass or removing snow	14	14	11	33	26	26	28	20
		K0292	Process classified or COMSEC materials or documents at deployed locations	54	21	71	100	62	51	70	60
		K0293	Request or distribute mobility requirements documents	14	11	9	67	16	11	19	20
		K0294	Set up or tear down shelters	30	21	40	17	47	40	55	20
		K0295	Tear down, inspect, clean, and reassemble weapons, such as M-16 rifles	45	36	51	50	60	46	72	40
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	L	PERFORMING TRAINING ACTIVITIES									
	L0296	Administer or score tests	19	4	26	50	24	6	36	40	
	L0297	Brief personnel concerning training programs or matters	33	7	49	67	40	17	57	40	
	L0298	Complete student entry or withdrawal forms	12	4	17	17	14	3	21	20	
	L0299	Conduct formal course classroom training	19	7	23	50	26	17	32	40	
	L0300	Conduct on-the-job training (OUT)	58	25	77	100	61	34	79	80	
	L0301	Counsel trainees on training progress	45	18	57	100	46	17	68	40	
	L0302	Determine training requirements	46	21	57	100	30	6	49	20	
	L0303	Develop formal course curricula, plans of instruction (POIs), or specialty training standards (STS)	16	7	14	67	9	0	15	20	
	L0304	Develop training programs, plans, or procedures	33	18	34	100	30	9	45	40	
	L0305	Develop written tests	25	11	26	83	17	3	26	40	
	L0306	Develop or procure training materials or aids	28	11	31	83	36	17	45	80	
	L0307	Establish or maintain study reference files	23	14	23	67	22	6	32	40	
	L0308	Evaluate effectiveness of training programs, plans, or procedures	26	11	31	67	20	6	28	40	
	L0309	Evaluate progress of trainees	39	18	46	100	38	9	57	60	
	L0310	Evaluate training methods or techniques of instructors	19	7	20	67	23	6	32	60	
	L0311	Inspect training materials or aids for operation or suitability	20	11	17	83	31	20	38	40	
	L0312	Maintain training records or files	43	18	57	83	56	31	77	40	
	L0313	Personalize lesson plans	23	0	31	83	28	11	34	80	
	L0314	Prepare job qualification standards (JQSS)	23	11	26	67	22	3	36	20	
	L0315	Write training reports	17	11	17	50	21	3	30	60	
	M	PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES									
	M0316	Annotate time and attendance sheets for civilian employees	10	7	9	33	8	0	15	0	
	M0317	Assign personnel to work areas or duty positions	14	0	23	33	30	9	45	40	
	M0318	Assign sponsors for newly assigned personnel	14	4	20	33	17	3	30	0	
	M0319	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	25	7	31	67	30	20	36	40	
	M0320	Conduct safety inspections of equipment or facilities	16	7	23	17	30	17	40	20	

Prtnod	T	Tsk Y Nbr	Task Title	ANG					AFRC					AFRC				
				TOT	5	7	9	TOT	5	7	9	TOT	5	7	9	TOT	5	7
			Conduct self-inspections or self-assessments	32	18	34	83	38	26	49	20							
M0321			Conduct staff assistance visits, inspections, or audits	14	7	14	50	13	3	19	20							
M0322			Conduct supervisory orientations for newly assigned personnel	22	7	29	50	30	6	49	20							
M0323			Conduct supervisory performance feedback sessions	19	7	23	50	28	6	45	20							
M0324			Counsel subordinates concerning personal matters	29	7	43	50	25	6	40	20							
M0325			Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	22	7	26	67	26	23	30	20							
M0326			Determine or establish work assignments or priorities	22	4	23	100	31	14	43	40							
M0327			Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	19	7	20	67	18	11	23	20							
M0328			Develop organizational or functional charts	13	7	11	50	11	0	19	20							
M0329			Develop resource protection programs	6	0	3	50	13	3	19	20							
M0330			Develop self-inspection or self-assessment program checklists	16	4	17	67	15	3	23	20							
M0331			Develop or establish work methods, procedures or schedules	29	14	29	100	22	6	32	40							
M0332			Direct operations of field or ground radio stations	14	11	17	17	29	20	34	40							
M0333			Draft budget requirements	7	4	3	50	9	0	15	20							
M0334			Draft host-tenant or interservice agreements	7	7	6	17	6	0	11	0							
M0335			Draft supplements or changes to communications publications	7	4	9	17	6	0	11	0							
M0336			Draft supplements or changes to directives, such as policy directives, instructions, or manuals, other than communications publications	10	7	11	17	6	0	11	0							
M0337			Establish COMSEC subaccounts	14	11	14	33	15	6	23	0							
M0338			Establish organizational policies, such as operating instructions (ORs) or standard operating procedures (SOPs)	25	7	26	100	21	6	30	40							
M0339			Establish performance standards for subordinates	23	7	26	83	20	9	28	20							
M0340			Evaluate communications operations	28	18	34	33	29	23	36	0							
M0341			Evaluate inspection report findings or inspection procedures	17	7	17	67	20	9	30	0							
M0342			Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) program	22	11	23	67	18	9	28	0							
M0343			Evaluate maintenance or utilization of equipment, tools, parts, supplies, or workspace	16	7	14	67	16	11	21	0							
M0344			Evaluate modified, new, or prototype equipment	28	14	29	83	21	9	30	20							
M0345			Evaluate personnel for compliance with performance standards	28	11	31	83	24	3	40	20							
M0346			Evaluate personnel for promotion, demotion, reclassification, or special awards	20	7	23	67	23	11	32	20							
M0347			Implement safety or security programs	4	4	3	17	6	0	11	0							
M0348			Implement status of resources and training system (SORTS) programs	19	4	26	50	15	3	21	40							
M0349			Initiate actions required due to substandard performance of personnel	17	4	20	67	15	3	21	40							
M0350			Initiate personnel action requests															
M0351																		

Prtnod	AFSC	3C1XX1 ANG/AFRC Data Displayed in Inv Order	Page	13
D	T	Task	Task Title	
	T	Task	Task Title	
	Y	Nbr		
M0352	Inspect personnel for compliance with military standards			
M0353	Interpret policies, directives, or procedures for subordinates			
M0354	Investigate accidents or incidents			
M0355	Perform as liaison to communications centers or spectrum managers for spectrum interference actions			
M0356	Plan communications support for exercises or special missions			
M0357	Plan equipment replacement programs			
M0358	Plan layouts of facilities			
M0359	Plan personnel or equipment deployments			
M0360	Review budget requirements			
M0361	Review drafts of supplements or changes to directives, such as policy directives, instructions, or manuals			
M0362	Review mobility, contingency, disaster preparedness, or unit emergency or alert plans			
M0363	Schedule personnel for TDY assignments, leaves, or passes			
M0364	Write inspection reports			
M0365	Write job position descriptions			
M0366	Write or endorse civilian performance appraisals			
M0367	Write or endorse military performance reports			
M0368	Write recommendations for awards or decorations			
M0369	Write replies to inspection reports			
M0370	Write staff studies, surveys, or routine reports, other than training or inspection reports			

## Report Option Table for Modules

Option	Status
Primary Sort	Inventory Sequence
Secondary Sort	Not Used
Print Suppress	Not Used

## Report Option Table for Tasks

Option	Status
Primary Sort	Inventory Sequence
Secondary Sort	Not Used
Print Suppress	Not Used

## Description of Reported Module Factors

Col	Factor	Source vector	Title	Module Statement	Description of Reported Module Factors						
					Number Members	Mean	Based on All S.D.	Tasks Within Range	Max	Min	Valid
1	TITLE										
2	F0012	GP0012/PMP	All Air Guard Airmen with DAFSC 3C1X1	Task Statement	69	21.26	14.33	84.06	.00	370	
3	F0016	GP0016/PMP	All Air Reserve Airmen with DAFSC 3C1X1		87	28.11	18.72	81.61	.00	370	
4	F0013	GP0013/PMP	All Air Guard Airmen with DAFSC 3C151		28	16.25	14.51	89.29	.00	370	
5	F0017	GP0017/PMP	All Air Reserve Airmen with DAFSC 3C151		35	22.06	19.21	77.14	.00	370	
6	F0014	GP0014/PMP	All Air Guard Airmen with DAFSC 3C171		35	22.73	17.64	85.71	.00	370	
7	F0018	GP0018/PMP	All Air Reserve Airmen with DAFSC 3C171		47	33.33	20.04	82.98	.00	370	
8	F0015	GP0015/PMP	All Air Guard Airmen with DAFSC 3C191		6	36.04	33.34	100.00	.00	370	
9	F0019	GP0019/PMP	All Air Reserve Airmen with DAFSC 3C191		5	21.35	22.67	100.00	.00	370	

STS 3C1X1, Radio Communications Systems, dated February 2002, is presented below with matched job inventory tasks and occupational survey data.

STS items are listed below the dotted line, followed by a listing of matched tasks. Pertinent survey data are printed to the right of each task. This printout is extremely useful during utilization and training workshops (U&TWs) to validate STS content and in determining appropriate training codes for STS items. In addition, tasks which were not matched to any STS item are listed in a "Tasks Not Referenced" section at the end of the printout. These unreferenced tasks should be carefully reviewed to identify new areas which may warrant inclusion in the STS.

For assistance in interpretation of this printout, contact AFOMS/OAE, at DSN 487-6811, ext 3011.

D	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC	
T Tsk	TOT TOT	5 5	7 7	9 9	
X Nbr	Task Title	ANG AFRC			
<hr/>					
0001	STS 3C1X1, RADIO COMMUNICATIONS SYSTEMS, dated February 2002				
<hr/>					
0002	1. RADIO COMMUNICATIONS SYSTEMS CAREER FIELD				
<hr/>					
0003	1.1. Structure	A	B	-	
<hr/>					
0004	1.2. Progression within Air Force Specialty Code (AFSC)	A	-	B	
<hr/>					
0005	1.3. Air Force Specialty Code (AFSC)	A	-	B	
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0006	1.3.1. Duties	A	-	B	

D T Y Nbr	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
0007	1.3.2. Responsibilities	A - B			
0008	1.3.3. Qualifications	A - B			
0009	1.3.4. Customer relations	A -			
0010	1.3.5. Associated Communications & Information (C&I) AFSCBs	A B -			
0011	1.4. Roles and Mission	A A -			
0012	1.5. Aerospace Expeditionary Force (AEF)	A B B			
0013	2. SUPERVISION				
0014	2.1. Brief Newly Assigned Personnel	- - -			
0015	2.1.1. Safety				

D T Y	Task Nbr	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
0016	2.1.2.	Mission	- - -	- - -	- - -	- - -
0017	2.1.3.	Responsibilities	- - -	- - -	- - -	- - -
0018	2.1.4.	Recognition Programs	- - A	- - A	- - A	- - A
0019	2.2.	Interpret for Subordinates	- - -	- - -	- - -	- - -
0020	2.2.1.	Policies	- - -	- - -	- - -	- - -
0021	2.2.2.	Directives	- - -	- - -	- - -	- - -
0022	2.2.3.	Procedures	- - -	- - -	- - -	- - -
0023	2.3.	Plan and Schedule	- - -	- - -	- - -	- - -
0024	2.3.1.	Work assignments	- - -	- - -	- - -	- - -

D T Y Nbr	Task Title	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
		TOT TOT	5 5	7 7	9 9
0025	2.3.2. Shifts	- -	- -	- -	- -

0026	2.3.3. Priorities	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
		TOT TOT	5 5	7 7	9 9
- -	- -	- -	- -	- -	

0027	2.4. Establish	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
		TOT TOT	5 5	7 7	9 9
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0028	2.4.1. Work methods	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
		TOT TOT	5 5	7 7	9 9
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0029	2.4.2. Controls	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
		TOT TOT	5 5	7 7	9 9
- -	- -	- -	- -	- -	

0030	2.4.3. Performance standards	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
		TOT TOT	5 5	7 7	9 9
- -	- -	- -	- -	- -	

0031	2.5. Brief Subordinates on Local and Standard Procedures	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
		TOT TOT	5 5	7 7	9 9
- -	- -	- -	- -	- -	

0032	2.6. Provide Feedback and Evaluate Work Performance	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
		TOT TOT	5 5	7 7	9 9
- -	- -	- -	- -	- -	

0033	2.7. Initiate Action to Correction Substandard Personnel Performance	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
		TOT TOT	5 5	7 7	9 9
- -	- -	- -	- -	- -	

D T Y	Task Nbr	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
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0034 2.8. Rate Personnel Performance - - -

0035 2.9. Counsel Personnel on Personal and Military - - -  
Related Problems

0036 2.10. Identify

0037 2.10.1. Personnel requirements - - -

0038 2.10.2. Equipment requirements - - -

0039 2.11. Resolve Technical Problems Encountered by - - -  
Subordinates

0040 2.12. Observe Equipment Operation to Ensure - - -  
Conformance with Established Standards

0041 2.13. Demonstrate how to Operate Equipment - - -

0042 2.14. Facility Maintenance

D T Y Nbr	Task Title	ANG AFRC			ANG AFRC			ANG AFRC		
		TOT	TOT	5	5	7	7	9	9	9
0043	2.14.1. Plan	-	-	-	-	-	-	-	-	-
0044	2.14.2. Schedule	-	-	-	-	-	-	-	-	-
0045	2.14.3. Supervise	-	-	-	-	-	-	-	-	-
0046	2.15. Operating Instructions (OI)									
0047	2.15.1. Prepare local operating procedures	-	-	-	-	-	-	-	-	-
0048	2.15.2. Issue	-	-	-	-	-	-	-	-	-
0049	2.15.3. Review	-	-	-	-	-	-	-	-	-
0050	2.16. Self-Inspections/Quality Indicators									
0051	2.16.1. Prepare	-	-	-	-	-	-	-	-	-

D T Y Task Nbr	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
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0052 2.16.2. Review - - -

0053 2.16.3. Issue - - -

0054 2.16.4. Conduct - - -

0055 2.16.5. Follow-up - - -

0056 2.17. Develop Budget Input  
0057 2.17.1. Analyze costs and utilization - - -

0058 2.17.2. Create budget - - -

0059 3. TRAINING

0060 3.1. Evaluate Personnel for Need of Training - - -

L 302 Determine training requirements

46 30 21 6 57 49 100 20

D	T	Task	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
Y	Nbr	Task Title	TOT TOT	5	5	7
				7	7	9
					9	9

0061 3.2. Enlisted Specialty Training (EST)  
Management

0062	3.2.1.	Prepare job qualification standard (JQS)	-	-	-	-
L 314	3.2.2.	Procure training material	-	-	-	-
L 306	3.2.3.	Develop or procure training materials or aids	28	36	11	17
0064	3.2.4.	Motivate trainers and trainees	-	-	31	45
0065	3.2.5.	Develop training materials	-	-	83	80
L 303	3.2.6.	Counsel trainees on training progress	-	-	-	-
L 304		Develop formal course curricula, plans of instruction (POIs), or specialty training standards (STSS)	16	9	7	0
L 305		Develop training programs, plans, or procedures	33	30	18	9
L 311		Develop written tests	25	17	11	3
		Inspect training materials or aids for operation or suitability	20	31	11	20
L 301		Counsel trainees on training progress	45	46	18	17
L 309		Evaluate progress of trainees	39	38	18	9
0067	3.2.6.	Monitor effectiveness of:			57	68
					100	40
					57	100
					60	

D T Y Task Nbr	Task Title	ANG AFRC			ANG AFRC			ANG AFRC		
		TOT	TOT	5	5	7	7	9	9	9
0068	3.2.6.1. Career knowledge upgrade training progress	-	-	-	-	-	-	-	-	-
L 300	Conduct on-the-job training (OJT)	-	-	-	-	-	-	58	61	25 34 77 79 100 80
0069	3.2.6.2. Job proficiency upgrade training	-	-	-	-	-	-	-	-	-
L 300	Conduct on-the-job training (OJT)	-	-	-	-	-	-	58	61	25 34 77 79 100 80
0070	3.2.6.3. Qualification training	-	-	-	-	-	-	-	-	-
0071	3.3. Maintain Training Records	-	-	-	-	-	-	-	-	-
L 312	Maintain training records or files	-	-	-	-	-	-	43	56	18 31 57 77 83 40
0072	3.4. Evaluate Effectiveness of Training Programs	-	-	-	-	-	-	-	-	-
L 308	Evaluate effectiveness of training programs, plans, or procedures	-	-	-	-	-	-	26	20	11 6 31 28 67 40
L 310	Evaluate training methods or techniques of instructors	-	-	-	-	-	-	19	23	7 6 20 32 67 60
L 311	Inspect training materials or aids for operation or suitability	-	-	-	-	-	-	20	31	11 20 17 38 83 40
0073	3.5. Recommend Personnel for Training	-	-	-	-	-	-	-	-	-
0074	4. OPERATIONAL RISK MANAGEMENT (ORM)	-	-	-	-	-	-	-	-	-

D Y Nbr	T Task Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5 7 7 9 9	ANG AFRC ANG AFRC
0075	4.1. Hazards of AFSC 3C1X1	A B -		
0076	4.2. AFOSH Standards for AFSC	A - -		
0077	4.3. Use Consistent Safety Practices	2b B -		
1210	Complete accident or incident reports		23 38	14 34 23 43 67 20
0078	4.4. Maintain Clean Work Environment	A - -		
0079	5. C-CS ADMINISTRATIVE FUNCTIONS			
0080	5.1. Publications			
0081	5.1.1. Air Force Manuals (AFMAN)	A - -		
0082	5.1.2. Air Force Policy Directives (AFPD)	A - -		
0083	5.1.3. Air Force Instructions (AFI)	A - -		

D	T	Task	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC	
Y	Nbr	Task Title	TOT TOT	5	5	7	7
0084	5.1.4.	Air Force Pamphlets (AFPAM)	A	-	-	-	-
0085	5.1.5.	Joint Army Navy Air Force Publications (JANAP)	A	B	-	-	-
0086	5.1.6.	Allied Communications Publications (ACP)	A	B	-	-	-
0087	5.1.7.	Operating Instructions (OI)	A	-	-	-	-
0088	5.1.8.	Commercial/vendor publications	A	-	-	-	-
0089	5.1.9.	DISA Publications	A	-	-	-	-
0090	5.1.10.	Technical Orders (TO)	A	B	-	-	-
I	223	Maintain time compliance technical orders (TCTOS)	12	13	14	6	9
I	224	Maintain TO libraries	16	16	18	6	9
I	233	Research TOs to identify components or equipment	25	22	18	11	26
0091	5.1.11.	Military Standard (MIL STD)	A	A	-	-	-

D	T	Task	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
T	Y	Task Title	TOT	TOT	TOT	TOT
Y	Nbr		5	5	7	9
			9	9	9	9

0092 5.1.12. Communication Act of 1934 A - -

0093 5.1.13. Flight Information Publications (FLIPS) A B -

F 138 Assemble, issue, retrieve, or update flight information publication (FLIP) bags

0094 5.2. Publications Handling

0095 5.2.1. Order documents and changes - - -

0096 5.2.2. Post changes - - -

I 242 Update and post lists, such as access or operator aids 29 30 11 20 34 36 83 40

0097 5.3. Identify Procedures for Locating b - - Publication Numbers and Titles Using Indexes

0098 5.4. Identify Procedures Publications to Locate b - - Operating Procedures and Technical Data 16 24 4 14 20 32 50 20

I 236 Review publishing bulletins

0099 5.5. Supply Functions

D	T	Task	Task Title	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
Y	Nbr			TOT TOT	5	5	7
0100	5.5.1.	Maintain accounts		-	-	-	-

## 0101 5.5.2. Keep records

I 218	Initiate or maintain standby rosters or workcenter pyramid recall rosters	25	24	7	9	29	36	83	20
I 219	Maintain administrative files	46	46	21	23	57	66	100	20
I 220	Maintain data logs	49	43	36	37	57	49	67	20
I 221	Maintain publications libraries, other than technical order (TO) libraries	32	30	18	17	34	40	83	20
I 223	Maintain time compliance technical orders (TCTOS)	12	13	14	6	9	19	17	0
I 224	Maintain TO libraries	16	16	18	6	9	26	50	0
I 243	Write minutes of briefings, conferences, or meetings	10	28	7	17	6	34	50	40
I 244	Write reports, such as after-action, outage, spectrum interference, or unit readiness	28	43	7	31	37	51	67	40

## 0102 5.6. Equipment Records

A B -

I 230	Prepare reports of survey	16	33	7	17	11	47	83	20
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## 0103 5.7. Office Records Management

## 0104 5.7.1. Traffic

A B -

I 209	Compile data for records, reports, logs, or trend analyses	25	28	14	14	29	40	50	0
I 238	Review traffic records	14	25	18	20	11	30	17	20

## 0105 5.7.2. Records

A B -

I 209	Compile data for records, reports, logs, or trend analyses	25	28	14	14	29	40	50	0
I 218	Initiate or maintain standby rosters or workcenter pyramid recall rosters	25	24	7	9	29	36	83	20
I 220	Maintain data logs	49	43	36	37	57	49	67	20

D T Y	Task Nbr	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
I	223	Maintain time compliance technical orders (TCTOS)	12 13	14 6	9 19	17 0
I	224	Maintain TO libraries	16 16	18 6	9 26	50 0
I	238	Review traffic records	14 25	18 20	11 30	17 20
I	243	Write minutes of briefings, conferences, or meetings	10 28	7 17	6 34	50 40
0106	5.8.	System Software Support	A B -			

## 0107 5.9. Magnetic Media Handling and Disposition - - -

C	60	Change computer diskettes or tapes	38 62	18 60	51 64	50 60
C	62	Change or store magnetic media or recording tapes	13 16	7 11	14 19	33 20
C	66	Clean recorder-producer heads	3 6	4 6	3 6	0 0
C	67	Degauss recording tapes	3 7	4 6	0 6	17 20
0108	5.10.	Communications Regulatory Agencies	A B -			

## 0109 5.11. Command and Control (C2) Agencies

## 0110 5.11.1. National Command Authority (NCA) A - -

## 0111 5.11.2. National Military Command System A B -

0112 5.11.3. Mobile Consolidated Command Center A - -  
(MCCC)

D T Y	Task Nbr	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
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0113 5.12. Legal Status of Communications Records

0114 5.12.1. Radio logs

A B -

0115 5.12.2. Recording devices

A B -

C 66	Clean recorder-reproducer heads	3	6	4	6	3	6	0	0
C 67	Degauss recording tapes	3	7	4	6	0	6	17	20
E 132	Identify recording equipment malfunctions	10	7	18	0	6	13	0	0
I 237	Review recording tapes for radio procedures	4	15	4	11	6	19	0	0

0116 6. C41 SECURITY

0117 6.1. Operations Security (OPSEC)

0118 6.1.1. Definition

A B -

0119 6.1.2. Background

A A -

0120	6.1.3. Relationship of OPSEC to other security programs	A A B
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D T Y	Task Nbr	Task Title	ANG AFRC TOT	ANG AFRC TOT	ANG AFRC TOT	ANG AFRC TOT
0121	6.1.4.	Vulnerabilities	A	B	-	-
0122	6.1.5.	Critical information	A	A	-	-
0123	6.2.	Information Security	-	-	-	-
0124	6.2.1.	Classification process	-	-	-	-
0125	6.2.2.	Declassification process	-	-	-	-
0126	6.2.3.	Information safeguards	-	-	-	-
0127	6.2.3.1.	Unclassified	-	-	-	-
0128	6.2.3.1.1.	Privacy Act	A	A	-	-
0129	6.2.3.1.2.	For Official Use Only (FOUO)	A	A	-	-

D T Y	Task Nbr	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
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0130 6.2.3.1.3. Sensitive But Unclassified (SBU) A A -

0131 6.2.3.2. Classified A A -

0132 6.3. Communications Security (COMSEC)

0133 6.3.1. Definition A B B

0134 6.3.2. Vulnerabilities A B -

0135 6.3.3. Safeguarding information 2b B -

I 212 Destroy classified or COMSEC materials or documents 62 80 29 77 83 83 100 80  
 I 213 Establish or maintain accountability records for 64 71 36 63 80 77 100 80  
 classified or COMSEC materials or documents

0136 6.3.4. Identify/report insecurities A B B

I 215 Identify and report suspected security compromises 57 64 29 54 71 72 100 60  
 I 216 Initiate classified reports, messages, or documents 41 44 11 29 54 55 100 40  
 I 229 Prepare reports of security or COMSEC violations 30 57 14 49 34 66 83 40

0137 6.3.5. COMSEC materials

D T Tsk Y Nbr	Task Title	ANG AFRC			ANG AFRC			ANG AFRC		
		TOT	TOT	5	5	7	7	9	9	
0138	6.3.5.1. Accounting	2b	-							
I 213	Establish or maintain accountability records for classified or COMSEC materials or documents	64	71	36	63	80	77	100	80	
I 222	Maintain security or COMSEC forms for safes, containers, or rooms	48	64	25	51	60	74	83	60	
I 232	Research marking or processing classified materials directives	20	23	11	14	17	30	83	20	
0139	6.3.5.2. Document	2b	B	-						
I 213	Establish or maintain accountability records for classified or COMSEC materials or documents	64	71	36	63	80	77	100	80	
I 232	Research marking or processing classified materials directives	20	23	11	14	17	30	83	20	
0140	6.3.5.3. Store	2b	B	-						
I 222	Maintain security or COMSEC forms for safes, containers, or rooms	48	64	25	51	60	74	83	60	
I 239	Store classified or COMSEC materials or documents, other than at deployed locations	45	59	21	49	54	68	100	40	
0141	6.3.5.4. Handle	2b	B	-						
I 213	Establish or maintain accountability records for classified or COMSEC materials or documents	64	71	36	63	80	77	100	80	
I 222	Maintain security or COMSEC forms for safes, containers, or rooms	48	64	25	51	60	74	83	60	
I 227	Perform two-person integrity (TPI) procedures for top secret materials	22	16	21	20	20	15	33	0	
0142	6.3.5.5. Destroy	2b	B	-						
I 212	Destroy classified or COMSEC materials or documents	62	80	29	77	83	83	100	80	

D	T	Task	Task Title
		Y Nbr	

ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
TOT TOT	5 5	7 7	9 9

0143	6.3.5.6.	Transport	b B -	
F 147	Issue, load, or retrieve cryptographic equipment		48 45	14 43
I 228	Prepare administrative, classified, or COMSEC		45 56	18 51
	materials or documents for mailing, transporting, or			57 60
I 240	issue			100 60
0144	6.3.5.7.	Voice call sign listing	2b B -	
D 92	Identify incoming calls using call-sign lists		33 55	39 51
I 214	Extract call-signs		43 44	25 23
0145	6.3.5.8.	Encode/decode document	A B -	
D 91	Encode or decode messages automatically or manually		35 57	21 54
0146	6.3.5.9.	Authentication systems	2b B -	
D 75	Authenticate message traffic using transmission		39 64	29 71
	authentication systems			43 64
D 76	Authenticate stations using challenge-and-reply		42 62	36 66
	systems			46 62
0147	6.3.5.10.	Keying materials	2b A -	
H 192	Perform manual key loading procedures		22 25	14 23
0148	6.3.5.11.	Encryption devices	A B -	
D 91	Encode or decode messages automatically or manually		35 57	21 54
E 121	Identify cryptographic equipment malfunctions		45 55	36 57
F 147	Issue, load, or retrieve cryptographic equipment		48 45	14 43
H 194	Perform over-the-air (OTAR) rekeying procedures		20 16	18 11
H 197	Perform satellite mission control systems (SMCS) key		4 6	7 3
H 205	Set up Communications Security (COMSEC) equipment		43 48	36 40

D	T	Task	Task Title	Y	Nbr
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0149	6.3.5.12.	Fill devices (e.g. DTD, KOI, KYK)	A	B	-
H 205	Set up Communications Security (COMSEC) equipment		43	48	36 40 51 55 33 40
0150	6.3.5.13. Key encryption device procedures (e.g. KOW)	b	-	-	
A 8	Key or zeroize secure cryptographic systems		84	82	79 77 86 83 100 100
A 30	Verify keying of cryptographic equipment		68	71	46 69 83 74 83 60
H 192	Perform manual key loading procedures		22	25	14 23 26 30 33 0
H 195	Perform point-to-point (PTP) call procedures		17	14	18 11 20 17 0 0
H 197	Perform satellite mission control systems (SMCS) key loading procedures		4	6	7 3 3 9 0 0
0151	6.3.5.14. Operate encryption device		-	-	
A 5	Connect or disconnect cryptographic equipment		68	70	79 69 60 68 67 100
0152	6.3.6. Transmission Security (TRANSEC)	A	B	-	
D 75	Authenticate message traffic using transmission authentication systems		39	64	29 71 43 64 67 20
D 76	Authenticate stations using challenge-and-reply systems		42	62	36 66 46 62 50 40
0153	6.4. Emission Security (EMSEC)				
0154	6.4.1. Definition	A	B	-	
0155	6.4.2. Notifications		-	-	

D	T	Task	Task Title	Y	Nbr
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ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
TOT TOT	5 5	7 7	9 9

0156 6.5. Computer security (COMPUSEC)

0157 6.5.1. Definition

A B -

0158 6.5.2. Vulnerabilities

A B -

0159 6.5.3. Processing classified information

- - -

0160 6.5.4. Identify/report security violations

- - -

0161 6.6. Physical Security

0162 6.6.1. Definition

A B -

0163 6.6.2. Secure area access management

- - -

0164 6.6.3. Facility security requirements

- - -

D	T	Task	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
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0165 6.6.4. Classified material control

	0166	6.6.4.1. Storage	A B -				
I	222	Maintain security or COMSEC forms for safes, containers, or rooms		48 64	25 51	60 74	83 60
I	239	Store classified or COMSEC materials or documents, other than at deployed locations		45 59	21 49	54 68	100 40
	0167	6.6.4.2. Shipment	A B -				
I	228	Prepare administrative, classified, or COMSEC materials or documents for mailing, transporting, or issue		45 56	18 51	57 60	100 60
	0168	6.6.4.3. Handling	A B -				
I	222	Maintain security or COMSEC forms for safes, containers, or rooms		48 64	25 51	60 74	83 60
I	227	Perform two-person integrity (TPI) procedures for top secret materials		22 16	21 20	20 15	33 0
I	232	Research marking or processing classified materials directives		20 23	11 14	17 30	83 20
	0169	6.6.4.4. Destruction	A B -				
	0170	6.6.4.5. Classified waste	A B -				
	0171	6.6.5. Identify/report violations procedures	b B -				
I	215	Identify and report suspected security compromises		57 64	29 54	71 72	100 60
I	229	Prepare reports of security or COMSEC violations		30 57	14 49	34 66	83 40

D T Task Y Nbr Task Title

ANG AFRC  
TOT TOT

ANG	AFRC	ANG	AFRC	ANG	AFRC
5	5	7	7	9	9

## 0172 6.7. Security Awareness Training and Education

### 0173 6.7.1. Information Awareness (IA)

## 0174 6.7.2. Threats and vulnerabilities

### 00175 6.7.3. Identify/report insecurities

## 0176 6.7.4: Protective measures

## 0177 7. OPERATING PROCEDURES

## 0178 7.1: Prepare Message Formats

0179 7.1.1 Fox Trot

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106 Prepare messages format  
117 Reset EAM alarms

- 37 -

D	T	Task	ANG AFRC	ANG AFRC	ANG AFRC			
Y	Nbr	Task Title	TOT TOT	5	7	9	9	ANG AFRC
<b>0181 7.2. Automatic Digital Network (AUTODIN/Defense Message Service (DMS))</b>								
D 105		Prepare messages using Automatic Digital Network (AUTODIN) or Defense Message Service (DMS) format	10	14	4	11	11	33 0
D 117		Reset EAM alarms	7	9	14	6	3	13 0
E 123		Identify DMS malfunctions	7	9	11	6	3	13 17 0
<b>0182 7.3. Prescribed procedures in:</b>								
<b>0183 7.3.1. Preventing false or fraudulent distress signals</b>								
D 108		Prevent false distress signals	13	24	7	17	20	32 0 0
<b>0184 7.3.2. Preventing transmission of obscene, indecent, or profane language</b>								
D 109		Prevent transmission of obscene or indecent language	29	51	21	49	40	53 0 40
<b>0185 7.3.3. Frequency control</b>								
D 88		Determine operating frequencies	28	49	21	46	31	53 33 40
D 96		Notify stations of frequency changes	30	48	32	40	34	55 0 40
I 211		Coordinate frequency use with requestors or spectrum managers	19	25	11	20	23	30 33 20
I 226		Monitor frequencies for interference among users	14	30	18	31	11	30 17 20
I 231		Request permanent frequency changes	13	26	7	20	17	32 17 20
I 241		Update frequency allocation lists	12	26	0	26	14	28 50 20
<b>0186 7.3.4. Operating power</b>								
		A B -						

D	T	Task	ANG	AFRC	ANG	AFRC	ANG	AFRC
Y	Nbr	Task Title	TOT	TOT	5	5	7	9

0187 7.3.5. Operating signals

2b B -

D 102 Perform signal testing in radio communications

D 108 Prevent false distress signals

38 47 54 37 31 55 0 40

13 24 7 17 20 32 0 0

0188 7.3.6. Prosigns

2b B -

D 82 Conduct data transmission using prosigns

30 55 29 60 34 53 17 40

0189 7.3.7. Hand printing techniques

2b - -

D 99 Perform hand printing techniques

2b B -

D 93 Identify missent or misrouted messages

D 115 Receive, transmit, or relay messages

D 117 Reset EAM alarms

H 193 Perform message processing procedures

14 28 7 26 23 32 0 0

36 54 46 51 31 62 17 0

7 9 14 6 3 13 0 0

14 17 14 11 17 23 0 0

0191 7.3.9. Log keeping

2b B -

I 220 Maintain data logs

I 234 Review deficiency, service, or status reports

49 43 36 37 57 49 67 20

13 21 4 17 17 26 33 0

0192 7.4. Direction Finding

A B -

D 86 Coordinate aircraft positions with direction-finding (DF) facilities

0 8 0 9 0 9 0 0

12 25 4 11 20 36 0 20



D	T	Task	Task Title
		Y	Nbr

0200 7.5.7. Broadcasting				2b	-
D	77	Broadcast radio transmissions		41	53
D	114	Receive, transmit, or relay broadcasts		28	41
0201	7.5.8. Phone patching procedures			54	57
A	24	Set up patch panels		17	16
A	25	Set up phone patch equipment		18	6
B	42	Configure consoles or terminals for phone patch operations		14	6
B	58	Configure transportable switchboard or telephone equipment for phone patch, secure voice data, or switchboard dial code operations		6	13
0202	7.6. Net Control Station			9	9
A	15	Set time generators on recorders		11	0
B	48	Configure terminals for alternate or net control station (NCS) operations		12	24
D	78	Check stations into or out of net		33	57
D	84	Conduct net roll calls or polls		22	41
D	95	Impose or lift radio silence		22	37
D	96	Notify stations of frequency changes		30	48
0203	7.7. Determine Step-by-Step Operating and reporting Procedures for Command, Control Communications, Countermeasures (C3CM)			b	3
D	79	Conduct command, control, communications countermeasures (C3CM) using operating procedures		23	46
0204	7.7.1. Spectrum interference (i.e. HF/SATCOM)			14	43
				31	51
				17	20

D	79	Conduct command, control, communications countermeasures (C3CM) using operating procedures	23	46	14	43	31	51	17	20

D	T	Task	Task Title
		Y Nbr	

0205 7.7.1. Recognition				B B -		ANG AFRC TOT TOT		ANG AFRC 5 5		ANG AFRC 9 9	
D 89 Determine types of spectrum interferences				B B -		25 25		4 17		37 34	
D 90 Direct users to tune to your count				B B -		12 25		4 11		20 36	
I 226 Monitor frequencies for interference among users				B B -		14 30		18 31		11 30	
0206 7.7.1.2. Countermeasures				B B -		12 24		7 17		14 32	
D 94 Implement spectrum interference countermeasures				B B -		12 24		7 17		14 32	
0207 7.7.1.3. Reporting				A B -		12 24		4 6		6 9	
D 87 Coordinate spectrum interferences with DF facilities				A B -		6 7		4 6		6 9	
D 116 Record and report spectrum interference incidents				A B -		26 24		14 11		34 36	
I 244 Write reports, such as after-action, outage, spectrum interference, or unit readiness				A B -		28 43		7 31		37 51	
0208 7.7.2. Handle aircraft emergencies/incidents				2b B -		22 37		18 31		29 43	
D 95 Impose or lift radio silence				2b B -		22 37		18 31		29 43	
0209 7.7.3. Aircraft reports				2b B -		14 20		25 17		6 23	
D 110 Receive and relay aircraft emergencies				2b B -		12 23		18 23		6 26	
D 111 Receive and relay departure reports				2b B -		12 16		18 11		6 21	
D 112 Receive and relay execution checklist messages				2b B -		12 22		18 17		6 28	
D 113 Receive and relay position reports				2b B -		23 20		4 14		26 23	
F 150 Review air tasking documents				2b B -		23 20		4 14		26 23	
0210 8. WAVE CREATION, PROPAGATION AND RADIATION				2b B -		14 20		25 17		6 23	

D T Y Nbr	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
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0211 8.1. Wave Creation and Propagation

0212 8.1.1. Concept of radio waves

B B -

0213 8.1.2. Characteristics of wave travel

0214 8.1.2.1. Ground waves

B B -

0215 8.1.2.2. Sky waves

B B -

0216 8.1.2.3. Direct wave

B B -

0217 8.1.3. Characteristics of frequency bands

B B -

0218 8.1.4. Typical application:

0219 8.1.4.1. Carrier wave (CW)

A A -

D	T	Task	Task Title	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
Y	Nbr			TOT TOT	5	5	7
0220	8.1.4.2.	Amplitude modulation (AM)	B B -				
0221	8.1.4.3.	Single side band (SSB)	B B -				
0222	8.1.4.4.	Frequency modulation (FM)	B B -				
0223	8.1.4.5.	Frequency shift keying (FSK)	B B -				
0224	8.1.4.6.	Digital transmissions	B B -				
B	56	Configure transceivers for secure radio data transfer		26	41	29	40
B	58	Configure transportable switchboard or telephone equipment for phone patch, secure voice data, or switchboard dial code operations		9	10	11	11
0225	8.1.4.7.	Frequency agility	B B -				
B	54	Configure transceivers for have Quick operations		14	16	14	17
0226	8.1.5.	Modes of operations					
0227	8.1.5.1.	Half duplex	A A -				
B	43	Configure equipment for duplex or simplex operations		12	18	7	9
						17	28
						0	0

D	T	Task	Task Title	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
Y	Nbr			TOT TOT	5	5	7
0228	8.1.5.2.	Full duplex		A	A	-	-

B 43 Configure equipment for duplex or simplex operations 12 18 7 9 17 28 0 0

0229 8.2. Antenna Systems

0230 8.2.1. Function of antennas B B -

E 118 Identify antenna system malfunctions

0231 8.2.2. General characteristics of antennas

0232 8.2.2.1. Fixed B B -

C 72 Repair antennas, other than tactical antennas

0233 8.2.2.2. Deployable B B -

C 73 Repair tactical antennas

0234 8.2.2.3. Antenna theory

0235 8.2.2.3.1. Fixed B B -

### 3C1X1 Displayed with ANG/AFRC Data

D T task Y Nbr Task title

ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
TOT TOT	5 5	7 7	9 9

0236 8:2:2:3:2 Deployable

### 0237 8.3. Use Propagation Documents

A 13 Select frequency-of-optimum transmission

## 0238 9. MISSION AND EQUIPMENT CAPABILITIES

0239 9-1 Mission:

卷之三

— 1 —

0242 9.1.3. System Information and Telecommunications

— 1 —

卷之三

- E 130 Identify Milstar false alarms or advisories
- E 134 Identify terminal malfunctions

partmod	T Tsk Y Nbr	Task Title	ANG AFRC			ANG AFRC			ANG AFRC		
			TOT	TOT	5	5	7	7	9	9	9
	G 160	Establish communications links with master control centers	12	24	14	26	11	26	0	0	0
	G 161	Establish communications links with mission monitors	9	20	11	26	9	17	0	0	0
	G 162	Establish communications links with on-station aircraft	3	16	4	20	3	15	0	0	0
	G 163	Establish communications links with primary control centers	7	26	11	29	6	28	0	0	0
	G 164	Initiate or terminate satellite commands	4	24	7	23	3	28	0	0	0
	G 165	Load SATCOM command post synchronizers	7	8	14	6	0	11	17	0	0
	G 166	Load terminal software	7	16	7	17	6	17	17	0	0
	G 167	Operate status display units (SDUs)	3	3	4	0	3	6	0	0	0
	G 168	Perform antenna position control functions	13	23	14	20	14	28	0	0	0
	G 169	Perform satellite look-angle procedures	13	18	18	14	11	23	0	0	0
	G 170	Perform selective message routing procedures	3	15	4	9	3	21	0	0	0
	G 171	Perform van set up procedures	7	1	7	0	9	2	0	0	0
	G 172	Queue messages	10	21	7	23	14	21	0	0	0
	G 173	Reconfigure SATCOM systems for operations in degraded conditions	7	14	11	6	6	21	0	0	0
	G 174	Reset terminal software	6	10	11	9	3	13	0	0	0
	G 175	Set up or join Air Force Satellite Communication (AFSATCOM) nets	17	24	25	23	14	28	0	0	0
	G 176	Store SATCOM messages	12	24	14	20	11	30	0	0	0
	G 178	Transmit SATCOM messages	23	39	29	37	23	45	0	0	0
	H 185	Perform anomaly resolution procedures	1	0	4	0	0	0	0	0	0
	H 186	Perform breaking-the-chain (BTC) keying procedures	4	1	7	0	3	2	0	0	0
	H 187	Perform cold start procedures	13	7	11	3	17	11	0	0	0
	H 189	Perform EHF network procedures	7	0	11	0	6	0	0	0	0
	H 190	Perform Milstar emergency shutdown or reset procedures	4	0	7	0	3	0	0	0	0
	H 191	Perform ephemeris update procedures	7	0	11	0	6	0	0	0	0
	H 192	Perform manual key loading procedures	22	25	14	23	26	30	33	0	0
	H 193	Perform message processing procedures	14	17	14	11	17	23	0	0	0
	H 197	Perform satellite mission control systems (SMCS) key loading procedures	4	6	7	3	3	9	0	0	0
	H 198	Perform single-channel transponder (SCT) procedures	7	0	14	0	3	0	0	0	0
	H 199	Perform spot beam procedures	6	1	7	0	6	2	0	0	0
	H 200	Perform terminal control procedures	10	1	14	3	9	0	0	0	0
	H 201	Perform terminal initialization procedures	10	0	14	0	9	0	0	0	0
	H 206	Set up or tear down Milstar networks	7	2	11	6	6	0	0	0	0
	H 207	Set up or tear down Milstar PTP calls	6	1	7	3	6	0	0	0	0
0245	9.1.6. Combat Communications		A B B								

D Y	T Nbr	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
0246	9.1.7.	Special Operations	A B B			

0247 9.1.8. Wing Contingency Communications  
(i.e. Theater Deployable Communications (TDC),  
WICP, MICK)

0248 9.1.9. Combat Crew Communication (CCC)

A B B

F 135	Assemble, issue, retrieve, or break down daily training communication kits	39 43	14 46	49 40	100 40
F 137	Assemble, issue, retrieve, or break down single integrated operations plan (SIOP) communication kits	35 26	7 23	46 30	100 20
F 138	Assemble, issue, retrieve, or update flight information publication (FLIP) bags	23 29	7 26	29 32	67 20
F 139	Brief aircrews on communications procedures	35 29	14 26	40 32	100 20
F 140	Conduct aircrew or missile crew premission briefings or postmission debriefings	22 18	4 11	26 23	83 20
F 141	Conduct exercise or contingency briefings or debriefings	26 31	7 20	29 36	100 60
F 142	Conduct SIOP or safe passage communications training	30 25	7 17	37 32	100 20
F 143	Construct or maintain combat mission folders (CMFS)	26 22	7 17	31 26	83 20
F 144	Create exercise or contingency communications FLIMSYS	29 22	7 23	34 21	100 20
F 145	Issue, load, or retrieve time standard modules (TSMS) to aircrews	10 7	11 6	6 6	33 20
F 146	Issue, load, retrieve or zeroize transfer modules	20 24	11 23	20 26	67 20
F 147	Issue, load, or retrieve cryptographic equipment	48 45	14 43	69 45	83 60
F 148	Issue or retrieve Identification Friend or Foe (IFF) or Special Identification Feature (SIF) codes	30 24	4 23	43 26	83 20
F 149	Operate transfer module service sets (TMSS)	4 7	4 6	3 6	17 20
F 151	Review flying schedules	29 28	4 23	37 32	100 20
0249	9.1.10. NATO	- - -	- - -	- - -	- - -

D	T	Task	Task Title	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
Y	Nbr			TOT	TOT	TOT	TOT
				5	5	7	9
				9	9	9	9

0250 9.1.11. Aeromedical evacuation support

A B B

0252 9.2. Equipment

A B C

0253 9.2.1. High Frequency (HF)

A 23	Set up mobile HF, VHF, UHF, or EHF satellite transceivers	35	57	43	60	31	60	17	20
A 32	Verify or load equipment presets	36	55	46	49	29	66	33	0
B 34	Change receiver, transceiver, or transmitter frequencies manually or by remote control	32	55	36	51	34	60	0	40
B 35	Change recorder-receiver pairings	1	0	4	0	0	0	0	0
G 152	Configure consoles or terminals for secure or nonsecure voice or data communications	26	29	21	26	26	34	50	0
G 159	Establish communications links with command centers	14	32	21	37	6	30	33	20
G 177	Transfer computer data using secure voice communications networks	16	32	25	29	11	38	0	0
H 183	Initiate bit procedures or tests	12	13	14	6	11	17	0	20

0254 9.2.2. Satellite (e.g. MILSTAR, TACSAT)

A B C

A 32	Verify or load equipment presets	36	55	46	49	29	66	33	0
B 41	Configure consoles or terminals for Milstar operations	3	2	4	6	3	0	0	0
B 45	Configure Hammer Rapid Initial Communications Kit (RICK) equipment for voice or data communications	6	1	4	3	9	0	0	0
B 49	Configure terminals for cross-banding	7	5	11	9	6	2	0	0
D 117	Reset EAM alarms	7	9	14	6	3	13	0	0
E 126	Identify Hammer RICK equipment malfunctions	6	1	4	0	9	2	0	0
E 130	Identify Milstar false alarms or advisories	6	1	11	3	3	0	0	0
F 147	Issue, load, or retrieve cryptographic equipment	48	45	14	43	69	45	83	60
G 152	Configure consoles or terminals for secure or nonsecure voice or data communications	26	29	21	26	26	34	50	0
G 154	Configure Satellite Communications (SATCOM) remote subsystems	14	18	18	14	14	23	0	0

prtmod	T	Task	Task Title	ANG AFRC		ANG AFRC		ANG AFRC	
				T	TOT	T	TOT	T	TOT
	G 155	Configure SATCOM systems for random operations		16	22	25	14	11	30
	G 156	Configure SATCOM systems for single-channel transponder systems (SCMSS)		16	13	21	11	14	15
	G 157	Configure SATCOM systems for time division multiplex (TDM) Mode I operations		7	8	11	6	6	11
	G 158	Configure SATCOM systems for TDM Mode II operations		4	7	7	6	3	9
	G 159	Establish communications links with command centers		14	32	21	37	6	30
	G 160	Establish communications links with master control centers		12	24	14	26	11	26
	G 161	Establish communications links with mission monitors		9	20	11	26	9	17
	G 162	Establish communications links with on-station aircraft		3	16	4	20	3	15
	G 163	Establish communications links with primary control centers		7	26	11	29	6	28
	G 164	Initiate or terminate satellite commands		4	24	7	23	3	28
	G 165	Load SATCOM command post synchronizers		7	8	14	6	0	11
	G 166	Load terminal software		7	16	7	17	6	17
	G 167	Operate status display units (SDUS)		3	3	4	0	3	6
	G 168	Perform antenna position control functions		13	23	14	20	14	28
	G 169	Perform satellite look-angle procedures		13	18	18	14	11	23
	G 170	Perform selective message routing procedures		3	15	4	9	3	21
	G 171	Perform van set up procedures		7	1	7	0	9	2
	G 172	Queue messages		10	21	7	23	14	21
	G 173	Reconfigure SATCOM systems for operations in degraded conditions		7	14	11	6	6	21
	G 174	Reset terminal software		6	10	11	9	3	13
	G 175	Set up or join Air Force Satellite Communication (AFSATCOM) nets		17	24	25	23	14	28
	G 176	Store SATCOM messages		12	24	14	20	11	30
	G 177	Transfer computer data using secure voice communications networks		16	32	25	29	11	38
	G 178	Transmit SATCOM messages		23	39	29	37	23	45
	H 179	Configure Milstar terminals as antenna, communication, or net control		6	6	11	9	3	4
	H 180	Configure Milstar terminals as beam management terminals		6	1	11	3	3	0
	H 181	Configure Milstar terminals for DAMA operations		6	3	11	9	3	0
	H 182	Establish or modify EHFR acquisitions or log on parameters		6	0	11	0	3	0
	H 183	Initiate bit procedures or tests		12	13	14	6	11	17
	H 184	Log on or off Milstar networks or satellites		6	3	7	6	6	2
	H 185	Perform anomaly resolution procedures		1	0	4	0	0	0
	H 186	Perform breaking-the-chain (BTC) keying procedures		4	1	7	0	3	2
	H 187	Perform cold start procedures		13	7	11	3	17	11
	H 188	Perform EHFR network procedures		7	0	11	0	6	0
	H 189	Perform Milstar emergency shutdown or reset procedures		4	0	7	0	3	0
	H 190	Perform ephemeris update procedures		7	0	11	0	6	0
	H 191	Perform satellite mission control systems (SMCS) key loading procedures		4	6	7	3	3	9
	H 192	Perform single-channel transponder (SCT) procedures		7	0	14	0	3	0

D	T	Task	Task Title	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
Y	Nbr			TOT	TOT	TOT	TOT
				5	5	5	5
H 199		Perform spot beam procedures		6	1	7	0
H 200		Perform terminal control procedures		10	1	14	3
H 201		Perform terminal initialization procedures		10	0	14	0
H 202		Perform Time Distribution Subsystem (TDS) or Time Distribution Subsystem Preprocessor (TDSPP) procedures		7	1	11	0
H 206		Set up or tear down Milstar networks		7	2	11	6
H 207		Set up or tear down Milstar PTP calls		6	1	7	3

## 0255 9.2.3. Computer interface

A B C

A 4	Connect or disconnect computer equipment			54	72	64	69
B 51	Configure terminals for slave-to-master operations			7	7	14	9
E 122	Identify digital electronic switches (DES) malfunctions			6	7	11	0
E 123	Identify DMS malfunctions			7	9	11	6
G 152	Configure consoles or terminals for secure or nonsecure voice or data communications			26	29	21	26

## 0256 9.2.4. SCOPE Command

A B -

B 38	Configure consoles for back-to-back operations			14	5	14	6
C 69	Operate or maintain recording devices			13	13	21	3
D 97	Perform conference call procedures			12	16	14	11
D 98	Perform contingency alternate routing procedures			10	15	7	9
D 117	Reset EAM alarms			7	9	14	21
E 120	Identify console malfunctions			12	14	18	17
E 122	Identify digital electronic switches (DES) malfunctions			6	7	11	0

## 0257 9.2.5. Automatic Link Establishment (ALE)

A B -

F 151	Review flying schedules			29	28	4	23
G 152	Configure consoles or terminals for secure or nonsecure voice or data communications			26	29	21	26
G 159	Establish communications links with command centers			14	32	21	37
						6	30

## 0258 9.2.6. Secure telephone equipment (STE)

A - -

E 133	Identify telephone malfunctions			17	37	11	26
						23	47

D	T	Task	Task Title

0259 9 2.7. International Maritime Satellite (IMARSAT)

A 22 Set up mobile international maritime satellite (IMARSAT) equipment

0260 10. MISSION PLANNING

0261 10.1. Purpose

- - B

0262 10.2. Assess Mission Requirements

0263 10.2.1. Existing capabilities

- - 2b

0264 10.2.2. Resources

- - 2b

H 203 Prepare images using communication planning tools

I 231 Request permanent frequency changes

0265 10.2.3. Shortfalls

- - 2b

0266 10.2.4. Capabilities for interoperability

- - 2b

ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
TOT TOT	5 5	7 7	9 9

ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
TOT TOT	5 5	7 7	9 9

D	T	Task	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC	
T	Y	Task Title	TOT TOT	5	5	7	9
Y	Nbr						

ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
TOT TOT	5	5	7
			9

0267 10.2.5. Security requirements and  
vulnerabilities - - 2b

A 17 Set up controlled safety or security areas - - 2b  
0268 11. EQUIPMENT OPERATIONS (i.e. HF/SAT)

0269	11.1. Configure Equipment	2b	-
A 2	Connect or disconnect antennas to radio equipment	65	75
A 3	Connect or disconnect commercial power supplies	39	46
A 7	Install grounding systems	33	60
A 9	Preset dual-tone multifrequency (DTMF) controlled receivers or transmitters	10	17
A 12	Select back-up receivers or transmitters	29	38
A 14	Select transmit power	33	41
A 19	Set up high frequency (HF), very high frequency (VHF), ultrahigh frequency (UHF), or extremely high frequency (EHF) mobile satellite antennas	49	64
A 23	Set up mobile HF, VHF, UHF, or EHF satellite transceivers	35	57
A 26	Set up radio equipment	52	74
A 27	Set up or operate auxiliary generators, such as fixed, mobile, or transportable	22	51
A 29	Tune receivers, transceivers, or transmitters	46	52
A 32	Verify or load equipment presets	36	55
B 34	Change receiver, transceiver, or transmitter frequencies manually or by remote control	32	55
B 36	Configure ancillary equipment for operations	14	33
B 37	Configure computers for data operations	28	41
B 38	Configure consoles for back-to-back operations	14	5
B 39	Configure consoles for clear voice operations	16	16
B 40	Configure consoles for switchboard dial code operations	3	1
C 68	Inspect communications equipment cables or cable connections	38	57
C 70	Perform operational checks of ancillary equipment	16	36
C 71	Perform operational checks of radio systems	42	61
E 128	Identify LMR malfunctions	23	48
E 129	Identify LMR repeater malfunctions	9	34
E 131	Identify receiver, transceiver, or transmitter malfunctions	20	45

D	T	Task	Task Title	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC
Y	Nbr			TOT	5	5	9
H	179	Configure Milstar terminals as antenna, communication, or net control		6	6	11	9
H	180	Configure Milstar terminals as beam management terminals		6	1	11	3
H	181	Configure Milstar terminals for DAMA operations		6	3	11	9
H	182	Establish or modify EHF acquisitions or log on parameters		6	0	11	0
H	183	Initiate bit procedures or tests		12	13	14	6
H	184	Log on or off Milstar networks or satellites		6	3	7	6
H	204	Set up baseband equipment		7	5	7	0
	0270	11.2. Antenna Construction		7	5	9	9

	0271	11.2.1. Siting (e.g. GPS)	2b	-			
A	16	Set up antenna masts <sup>B</sup>		61	68	82	69
A	17	Set up controlled safety or security areas		35	60	36	63
A	28	Site radio antennas or equipment		45	61	57	60
H	196	Perform Position Lightweight Global Positioning System Receiver (PLGR) procedures		9	3	14	3
	0272	11.2.2. Assemble antenna mast	2b	-			
A	16	Set up antenna masts		61	68	82	69
	0273	11.2.3. Configure tactical antenna system (i.e. Dipole, sloping Vee)	2b	-			
A	1	Connect or disconnect antenna couplers		57	72	79	69
A	2	Connect or disconnect antennas to radio equipment		65	75	89	77
A	6	Cut antenna lengths		17	41	21	37
A	7	Install grounding systems		33	60	36	66
B	59	Reconfigure antennas		42	52	50	51
	0274	11.2.4. Antenna Orientation	2b	-			
A	10	Rotate antennas using radio dial codes or azimuth control boxes		14	23	29	23

D	T	Tsk	Task Title	ANG AFRC	TOT TOT	ANG AFRC	ANG AFRC	ANG AFRC
				5	5	7	7	9
A	11		Select antennas using antenna matrix systems or patch panels	7	13	11	9	3
B	33		Adjust antenna tuning units	25	33	36	29	20
						40	0	0
0275	11.3.	M/Hop Operations	A - -					
B	50		Configure terminals for multiple-hop operations	10	16	18	17	3
						17	3	17
							17	0
0276	11.4.	Configure Equipment for Phone Patching						
A	24		Set up patch panels	9	6	18	3	3
A	25		Set up phone patch equipment	17	16	18	6	20
B	42		Configure consoles or terminals for phone patch operations	9	9	14	6	13
B	55		Configure transceivers for phone patch operations	13	16	7	6	20
B	58		Configure transportable switchboard or telephone equipment for phone patch, secure voice data, or switchboard dial code operations	9	10	11	11	0
							26	0
0277	11.4.1.	Manual	2b - -					
D	85		Conduct phone patches automatically or manually	19	16	11	6	26
						26	17	0
0278	11.4.2.	Voice Operated Transmitter (VOX)	2b - -					
D	85		Conduct phone patches automatically or manually	19	16	11	6	26
						26	17	0
0279	11.5.	Monitor Frequencies/Circuits	2b - -					
D	85		Conduct phone patches automatically or manually	19	16	11	6	26
I	226		Monitor frequencies for interference among users	14	30	18	31	11
						30	17	20
0280	11.6.	Computer Familiarization						

D	T	Task	ANG AFRC	ANG AFRC	ANG AFRC	ANG AFRC	
Y	Nbr	Task Title	TOT TOT	5	5	7	9
0281	11.6.1.	USE Windows	-	-	-	-	-

0282 11.6.2. USE Microsoft Word

- - -

0283 11.6.3. Input and output devices

- - -

0284 11.6.3.1. Use printers

- - -

B	46	Configure line printers	12	32	7	29	11	38	33	0
C	61	Change paper in high-speed printers	36	46	25	49	43	43	50	60
C	64	Clean printers	26	40	25	31	17	47	83	40
E	127	Identify line printer malfunctions	16	33	14	29	14	36	33	40

0285 11.6.3.2. Use monitors

- - -

0286 11.6.3.3. Use keyboard

- - -

0287 11.6.3.4. Use mouse

- - -

0288 11.6.3.5. Modem

- - -

G 153 Configure modems for narrowband operations

10	14	11	14	11	15	0	0
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D	T	Task	Task Title
		Y Nbr	

0289	11.6.3.6.	Fax	- - -
A	18	Set up facsimile transmission equipment	20 38
B	44	Configure facsimile equipment	13 32
C	63	Clean facsimile equipment	14 26
E	124	Identify facsimile equipment malfunctions	16 30

0290	11.6.4.	Electronic mail (e-mail)	- - -
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0291	12.	NETWORKS	
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0292	12.1.	Fundamentals	A - -
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0293	12.2.	Types	
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0294	12.2.1.	NIPERNET	A - -
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I 208	Brief personnel on Non-secure Internet Protocol Routing Network (NIPRNET) or Secure Internet Protocol Routing Network (SIPRNET) usage	17 18	0 9 26 28 50 0
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0295	12.2.2.	SIPERNET	A - -
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I 208	Brief personnel on Non-secure Internet Protocol Routing Network (NIPRNET) or Secure Internet Protocol Routing Network (SIPRNET) usage	17 18	0 9 26 28 50 0
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D	T	Task	Task Title	Y	Nbr
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0296 12.2.3. Radio net					
			A	B	-
A	20	Set up land mobile radio (LMR) networks	19	45	25 49 17 47 0 0
A	21	Set up LMR repeater networks	10	33	21 31 3 38 0 0
A	31	Verify radio nets for tactical or nontactical radios	26	52	25 54 29 55 17 0
D	98	Perform contingency alternate routing procedures	10	15	7 9 14 21 0 0
G	177	Transfer computer data using secure voice communications networks	16	32	25 29 11 38 0 0
H	184	Log on or off Milstar networks or satellites	6	3	7 6 2 0 0 0
0297 12.2.4. Demand Assigned Multiple Access (DAMA)					
B	47	Configure radios for demand assigned multiple access (DAMA) operations	20	40	18 37 26 45 0 20
H	181	Configure Milstar terminals for DAMA operations	6	3	11 9 3 0 0 0
H	188	Perform DAMA procedures	25	24	29 23 26 28 0 0
0298 13. WORKCENTER MANAGEMENT					
0299 13.1. Manpower					
0300 13.2. Manpower Requirements Qualification					
0301 13.3. Financial Resources					
0302 14. COMBAT CREW COMMUNICATIONS					

D	T	Task	Task Title
	Y	Nbr	

## 0303 14.1. Single Integrated Operations Plan (SIOP)

0304 14.1.1. Define SIOP

A A -

0305 14.2. Recognize Communication Kits

0306 14.2.1. SIOP

A B -

F 135 **Assemble, issue, retrieve, or break down daily training communication kits**  
 F 136 **Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits**  
 F 137 **Assemble, issue, retrieve, or break down single integrated operations plan (SIOP) communication kits**  
 F 138 **Assemble, issue, retrieve, or update flight information publication (FLIP) bags**

0307 14.2.2. Exercise

A B -

F 135 **Assemble, issue, retrieve, or break down daily training communication kits**  
 F 136 **Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits**  
 F 138 **Assemble, issue, retrieve, or update flight information publication (FLIP) bags**  
 F 141 **Conduct exercise or contingency briefings or debriefings**

0308 14.2.3. Contingency

A B -

F 135 **Assemble, issue, retrieve, or break down daily training communication kits**  
 F 136 **Assemble, issue, retrieve, or break down exercise or contingency conventional communication kits**

D	T	Task Y Nbr	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
F 138			Assemble, issue, retrieve, or update flight information publication (FLIP) bags	23 29	7 26	29 32	67 20
F 141			Conduct exercise or contingency briefings or debriefings	26 31	7 20	29 36	100 60
0309	14.3.		Recognize Channelization Plan	A B -			

## 0310 14.4. Describe Identification Friend or Foe (IFF) / Selective Identification Feature (SIF)

F 142 Conduct STOP or safe passage communications training  
 F 147 Issue, load, or retrieve cryptographic equipment  
 F 148 Issue or retrieve Identification Friend or Foe (IFF) or Special Identification Feature (SIF) codes

## 0311 14.5. Strategic Aircraft Reconstitution Team (SART)

## 0312 14.5.1. Define Bomber SART (B-SART)

A - -

## 0313 14.5.2. Define Reconnaissance Support Team (R-SART)

A - -

## 0314 14.5.3. Define Tanker SART (T-SART)

A - -

## 0315 14.6. Define POLO HAT

A - -

D T	T Task Y Nbr	Task Title	ANG AFRC TOT TOT	ANG AFRC 5 5	ANG AFRC 7 7	ANG AFRC 9 9
0316	14.7.	Define Combat Mission Folder (CMF)	A - -	26	22	7 17 31 26 83 20
F	143	Construct or maintain combat mission folders (CMFs)	A - -	30	43	32 37 26 51 50 0
0317	14.8.	Describe Aircraft Generation	- A -	1	1	4 3 0 0 0 0
0318	14.9.	Define DEFCONS	A - -	20	43	21 29 23 53 0 40
0319		Tasks not referenced		19	46	14 34 23 55 17 40
B	52	Configure transceivers for back-to-back operations		38	45	32 40 43 49 33 40
B	53	Configure transceivers for clear or secure voice operations		13	39	14 34 14 43 0 40
B	57	Configure transceivers for switchboard dial code operations		13	39	14 34 14 43 0 40
C	65	Clean radio equipment filters		23	39	11 31 26 45 67 40
C	74	Replace radio system components, such as bulbs or fuses		19	24	4 11 23 34 67 20
E	119	Identify computer equipment malfunctions		33	33	18 23 40 40 67 40
E	125	Identify fixed, mobile, or transportable generator malfunctions		39	46	29 34 40 57 83 20
I	217	Initiate requests for temporary duty (TDY) orders		28	49	21 43 29 55 50 40
I	225	Maintain or update status indicators, such as boards, graphs, or charts		42	54	29 43 49 64 67 40
J	245	Coordinate maintenance of equipment with appropriate agencies		28	38	14 29 31 43 67 60
J	246	Develop equipment checklists		49	55	39 46 51 64 83 40
J	247	Evaluate serviceability of equipment, tools, parts, or supplies		25	38	14 34 31 38 33 60
J	248	Identify and report equipment or supply problems		19	33	11 31 20 36 50 20
J	249	Initiate requisitions for equipment, tools, parts, or supplies		16	36	11 31 14 40 50 20
J	250	Inventory equipment, tools, parts, or supplies				
J	251	Issue or log turn-ins of equipment, tools, parts, or supplies				
J	252	Maintain documentation on items requiring periodic inspections or calibrations				
J	253	Maintain organizational equipment or supply records				

D T Y	Task Nbr	Task title	ANG AFRC TOT	ANG AFRC 5	ANG AFRC 5	ANG AFRC TOT	ANG AFRC 5	ANG AFRC 5	ANG AFRC TOT	ANG AFRC 5	ANG AFRC 5	
J	J 254	Pick up, deliver, or store equipment, tools, parts, or supplies	25	46	21	40	23	51	50	40	9	9
J	J 255	Research supply requisition data, such as supply catalogs or master cross-reference listings (MCRLLs)	9	15	7	3	6	23	33	20		
J	J 256	Validate supply transaction listings or rosters, such as D-04, D-18, or M-30	4	7	4	3	3	9	17	20		
K	K 257	Assign personnel to mobility or contingency positions	10	16	7	3	6	23	50	40		
K	K 258	Brief deploying personnel	30	37	11	20	37	49	83	40		
K	K 259	Complete hazardous cargo shipping documents	17	29	11	23	20	30	33	60		
K	K 260	Complete operations plan (OPLAN) sourcing requirements	17	15	11	9	14	19	67	20		
K	K 261	Compute OPLAN requirements status listings	10	13	0	6	9	17	67	20		
K	K 262	Conduct contingency operation/mobility planning and execution system (COMPES) programs	7	10	0	3	6	17	50	0		
K	K 263	Conduct mobility or deployment site surveys	14	32	4	23	17	40	50	20		
K	K 264	Coordinate deployment of personnel with other MAJCOMS or joint service commands	9	10	4	3	6	17	50	0		
K	K 265	Coordinate exercise sourcing requirements with functional managers	7	14	4	9	3	19	50	0		
K	K 266	Coordinate mobility or contingency requirements with appropriate agencies	9	15	4	9	6	19	50	20		
K	K 267	Coordinate specific source of personnel requirements with appropriate agencies	9	16	7	11	3	21	50	0		
K	K 268	Determine cost factors for support agreements	3	6	4	0	3	11	0	0		
K	K 269	Determine specific source of personnel requirements for deployment Manning documents	4	8	4	6	3	11	17	0		
K	K 270	Develop contingency exercise mobility (CEM) orders	4	7	4	0	6	13	0	0		
K	K 271	Develop mobility inspection checklists	17	28	14	14	14	36	50	40		
K	K 272	Dispatch mobile radio units	6	26	4	20	6	32	17	20		
K	K 273	Don or doff chemical warfare personal protective clothing	52	63	14	46	74	77	100	60		
K	K 274	Erect tents	38	61	32	49	46	70	17	60		
K	K 275	Inspect mobility bags or kits	57	55	39	43	69	62	67	80		
K	K 276	Maintain disaster preparedness checklists equipment prior to transport	30	41	11	23	49	49	17	100		
K	K 277	Maintain accountability of personnel selected to fill OPLAN requirements	17	16	4	6	23	23	50	20		
K	K 278	Maintain base OPLAN files	12	15	4	9	11	19	50	20		
K	K 279	Maintain mobility or contingency equipment for shipment or movement	20	22	11	20	20	23	67	20		
K	K 280	Pack or palletize mobility or contingency equipment for shipment or movement	29	46	11	29	43	55	33	80		
K	K 281	Perform camouflage procedures	32	53	18	46	46	60	17	40		
K	K 282	Perform chemical warfare agent decontamination procedures	36	56	18	49	49	64	50	40		
K	K 283	Perform disease or pestilence countermeasures	17	30	11	34	23	30	17	0		
K	K 284	Perform explosive ordnance reconnaissance	16	43	7	31	17	53	50	20		
K	K 285	Perform mobility file and mobility file matches	6	14	4	11	3	17	33	0		
K	K 286	Perform predeployment reconnaissance surveys	7	15	4	6	3	21	50	20		
K	K 287	Perform safety measures by marking radiation hazards or antenna systems	23	46	18	40	29	51	17	40		
K	K 288	Perform or set up site security	23	48	21	46	20	53	50	20		

D T Y Nbr	Task Title	ANG AFRC					ANG AFRC				
		TOT	TOT	5	5	7	7	9	9	9	9
K 289	Prepare equipment for deployments	46	64	25	57	54	70	100	60		
K 290	Prepare hazardous cargo for deployment	26	34	18	23	29	40	50	60		
K 291	Prepare sites at deployed locations, such as cutting grass or removing snow	14	26	14	26	11	28	33	20		
K 292	Process classified or COMSEC materials or documents at deployed locations	54	62	21	51	71	70	100	60		
K 293	Request or distribute mobility requirements documents	14	16	11	11	9	19	67	20		
K 294	Set up or tear down shelters	30	47	21	40	40	55	17	20		
K 295	Tear down, inspect, clean, and reassemble weapons, such as M-16 rifles	45	60	36	46	51	72	50	40		
L 296	Administer or score tests	19	24	4	6	26	36	50	40		
L 297	Brief personnel concerning training programs or matters	33	40	7	17	49	57	67	40		
L 298	Complete student entry or withdrawal forms	12	14	4	3	17	21	17	20		
L 299	Conduct formal course classroom training	19	26	7	17	23	32	50	40		
L 307	Establish or maintain study reference files	23	22	14	6	23	32	67	40		
L 313	Personalize lesson plans	23	28	0	11	31	34	83	80		
L 315	Write training reports	17	21	11	3	17	30	50	60		
M 316	Annotate time and attendance sheets for civilian employees	10	8	7	0	9	15	33	0		
M 317	Assign personnel to work areas or duty positions	14	30	0	9	23	45	33	40		
M 318	Assign sponsors for newly assigned personnel	14	17	4	3	20	30	33	0		
M 319	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	25	30	7	20	31	36	67	40		
M 320	Conduct safety inspections of equipment or facilities	16	30	7	17	23	40	17	20		
M 321	Conduct self-inspections or self-assessments	32	38	18	26	34	49	83	20		
M 322	Conduct staff assistance visits, inspections, or audits	14	13	7	3	14	19	50	20		
M 323	Conduct supervisory orientations for newly assigned personnel	22	30	7	6	29	49	50	20		
M 324	Conduct supervisory performance feedback sessions	19	28	7	6	23	45	50	20		
M 325	Counsel subordinates concerning personal matters	29	25	7	6	43	40	50	20		
M 326	Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	22	26	7	23	26	30	67	20		
M 327	Determine or establish work assignments or priorities	22	31	4	14	23	43	100	40		
M 328	Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	19	18	7	11	20	23	67	20		
M 329	Develop organizational or functional charts	13	11	7	0	11	19	50	20		
M 330	Develop resource protection programs	6	13	0	3	3	19	50	20		
M 331	Develop self-inspection or self-assessment program checklists <sup>s</sup>	16	15	4	3	17	23	67	20		
M 332	Develop or establish work methods, procedures or schedules	29	22	14	6	29	32	100	40		
M 333	Direct operations of field or ground radio stations	14	29	11	20	17	34	17	40		
M 334	Draft budget requirements	7	9	4	0	3	15	50	20		
M 335	Draft host-tenant or interservice agreements	7	6	7	0	6	11	17	0		
M 336	Draft supplements or changes to communications publications	7	6	4	0	9	11	17	0		

D T Tsk Y Nbr	Task title	ANG AFRC					ANG AFRC				
		TOT	TOT	5	5	7	7	ANG AFRC	ANG AFRC	9	9
M 337	Draft supplements or changes to directives, such as policy directives, instructions, or manuals, other than communications publications	10	6	7	0	11	11	17	0		
M 338	Establish COMSEC subaccounts	14	15	11	6	14	23	33	0		
M 339	Establish organizational policies, such as operating instructions (OIs) or standard operating procedures (SOPs)	25	21	7	6	26	30	100	40		
M 340	Establish performance standards for subordinates	23	20	7	9	26	28	83	20		
M 341	Evaluate communications operations	28	29	18	23	34	36	33	0		
M 342	Evaluate inspection report findings or inspection procedures	17	20	7	9	17	30	67	0		
M 343	Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) program	22	25	4	17	26	32	83	20		
M 344	Evaluate maintenance or utilization of equipment, tools, parts, supplies, or workspace	22	18	11	9	23	28	67	0		
M 345	Evaluate modified, new, or prototype equipment	16	16	7	11	14	21	67	0		
M 346	Evaluate personnel for compliance with performance standards	28	21	14	9	29	30	83	20		
M 347	Evaluate personnel for promotion, demotion, reclassification, or special awards	28	24	11	3	31	40	83	20		
M 348	Implement safety or security programs	20	23	7	11	23	32	67	20		
M 349	Implement status of resources and training system (SORTS) programs	4	6	4	0	3	11	17	0		
M 350	Initiate actions required due to substandard performance of personnel	19	15	4	3	26	21	50	40		
M 351	Initiate personnel action requests	17	15	4	3	20	21	67	40		
M 352	Inspect personnel for compliance with military standards	33	25	7	9	46	36	83	40		
M 353	Interpret policies, directives, or procedures for subordinates	12	17	4	9	9	23	67	20		
M 354	Investigate accidents or incidents	9	14	4	9	9	17	33	20		
M 355	Perform as liaison to communications centers or spectrum managers for spectrum interference actions	13	18	0	3	14	30	67	20		
M 356	Plan communications support for exercises or special missions	19	24	7	9	17	36	83	20		
M 357	Plan equipment replacement programs	9	14	4	3	9	21	33	20		
M 358	Plan layouts of facilities	10	14	4	3	9	21	50	20		
M 359	Plan personnel or equipment deployments	13	18	0	3	14	30	67	20		
M 360	Review budget requirements	9	8	7	0	0	13	67	20		
M 361	Review drafts of supplements, instructions, or manuals such as policy directives, contingency, disaster preparedness, or unit emergency or alert plans	14	11	4	9	14	13	67	20		
M 362	Review mobility, contingency, disaster preparedness, or unit emergency or alert plans	16	18	4	17	14	21	83	0		
M 363	Schedule personnel for TDY assignments, leaves, or passes	19	15	7	0	17	26	83	20		
M 364	Write inspection reports	6	10	4	0	3	17	33	20		
M 365	Write job or position descriptions	17	15	7	6	17	21	67	20		
M 366	Write or endorse civilian performance appraisals	1	9	0	0	0	15	17	20		
M 367	Write or endorse military performance reports	14	28	4	6	14	38	67	80		
M 368	Write recommendations for awards or decorations	26	28	11	3	31	43	67	60		

D	T	Task Nbr	Task Title	ANG AFRC TOT	ANG AFRC 5	ANG AFRC 5	ANG AFRC 7	ANG AFRC 7	ANG AFRC 9	ANG AFRC 9
M	369		Write replies to inspection reports	14	18	7	3	9	30	83
M	370		Write staff studies, surveys, or routine reports, other than training or inspection reports	7	10	4	3	6	15	33

Radio Communications Systems  
Reported AFSC(s) : 3C1X1

----- Variable/Group Distributions -----

The percent of reported group members who use, maintain or operate various types of equipment are presented under the column headings for the appropriate group. This percent using, maintaining, or operating equipment may be valuable in determining the relevancy of training and testing on or about these types of equipment.

Reports on the following groups were requested:

SP0012: All Air Guard Airmen with DAFSC	3C1X1	(n = 69)
SP0013: All Air Guard Airmen with DAFSC	3C151	(n = 28)
SP0014: All Air Guard Airmen with DAFSC	3C171	(n = 35)
SP0015: All Air Guard Airmen with DAFSC	3C191	(n = 6)

V0102 Fixed communication sys use/oper - None

Interval	Percentages	ANG	5-LVL	7-LVL	9-LVL	
		TOTAL	SAMPLE	SP0013	SP0014	SP0015
Yes	64 %	39 %	80 %	83 %		
	36 %	61 %	20 %	17 %		
Total in group:	69*	28*	35*	6*		

V0103 Fixed communication sys use/oper - AFSSATCOM

Interval	Percentages	ANG	5-LVL	7-LVL	9-LVL	
		TOTAL	SAMPLE	SP0013	SP0014	SP0015
Yes	4 %	11 %	0 %	0 %	0 %	
	96 %	89 %	100 %	100 %	100 %	
Total in group:	69*	28*	35*	6*		

## V0104 Fixed communication sys use/oper - Global HF Systems

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0013	SP0014	SP0015
Yes	Other:	10 %	18 %	6 %	0 %
Total in group:		90 %	82 %	94 %	100 %
		69*	28*	35*	6*

## V0105 Fixed communication sys use/oper - Global Weather Intercept Program (GWIP)

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0013	SP0014	SP0015
Yes	Other:	0 %	0 %	0 %	0 %
Total in group:		100 %	100 %	100 %	100 %
		69*	28*	35*	6*

## V0106 Fixed communication sys use/oper - Milstar

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0013	SP0014	SP0015
Yes	Other:	0 %	0 %	0 %	0 %
Total in group:		100 %	100 %	100 %	100 %
		69*	28*	35*	6*

## V0107 Fixed communication sys use/oper - SITFAA

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0013	SP0014	SP0015
Yes	Other:	0 %	0 %	0 %	0 %
Total in group:		100 %	100 %	100 %	100 %
		69*	28*	35*	6*

## V0108 Fixed communication sys use/oper - Other

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes		17 %	32 %	6 %	17 %
Other:		83 %	68 %	94 %	83 %
Total in group:		69*	28*	35*	6*

## V0109 Deployable communications systems use/operate - None

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes		29 %	7 %	40 %	67 %
Other:		71 %	93 %	60 %	33 %
Total in group:		69*	28*	35*	6*

## V0110 Deployable communications systems use/operate - AFSATCOM

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes		17 %	18 %	20 %	0 %
Other:		83 %	82 %	80 %	100 %
Total in group:		69*	28*	35*	6*

## V0111 Deployable communications systems use/operate - HF Mobile Systems

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes		36 %	39 %	40 %	0 %
Other:		64 %	61 %	60 %	100 %
Total in group:		69*	28*	35*	6*

## V0112 Deployable communications systems use/operate - Milstar

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:	1 %	4 %	0 %	0 %	0 %	
Total in group:		99 %	96 %	100 %	100 %	100 %	
		69*	28*	35*	35*	6*	

## V0113 Deployable communications systems use/operate - NICK/WICP

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:	0 %	0 %	0 %	0 %	0 %	
Total in group:		100 %	100 %	100 %	100 %	100 %	
		69*	28*	35*	35*	6*	

## V0114 Deployable communications systems use/operate - Mystic Star

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:	0 %	0 %	0 %	0 %	0 %	
Total in group:		100 %	100 %	100 %	100 %	100 %	
		69*	28*	35*	35*	6*	

## V0115 Deployable communications systems use/operate - Special Operations

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:	9 %	7 %	11 %	0 %	0 %	
Total in group:		91 %	93 %	89 %	100 %	100 %	
		69*	28*	35*	35*	6*	

## V0116 Deployable communications systems use/operate - Other

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:		26 %	43 %	11 %	33 %	
Total in group:		69*	74 %	57 %	89 %	67 %	
			69*	28*	35*	6*	

## V0117 Frequency bands use - None

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:		28 %	4 %	40 %	67 %	
Total in group:		69*	72 %	96 %	60 %	33 %	
		69*	28*	35*	35*	6*	

## V0118 Frequency bands use - HF

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:		49 %	46 %	54 %	33 %	
Total in group:		69*	51 %	54 %	46 %	67 %	
		69*	28*	35*	35*	6*	

## V0119 Frequency bands use - Very High Frequency (VHF)

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:		29 %	29 %	29 %	33 %	
Total in group:		69*	71 %	71 %	71 %	67 %	
		69*	28*	35*	35*	6*	

## V0120 Frequency bands use - Ultrahigh Frequency (UHF)

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0013	SP0014	SP0015
Yes	Other:	33 %	32 %	34 %	33 %
Total in group:		67 %	68 %	66 %	67 %
		69*	28*	35*	6*

## V0121 Frequency bands use - Super High Frequency (SHF)

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0013	SP0014	SP0015
Yes	Other:	6 %	0 %	11 %	0 %
Total in group:		94 %	100 %	89 %	100 %
		69*	28*	35*	6*

## V0122 Frequency bands use - Extremely High Frequency (EHF)

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0013	SP0014	SP0015
Yes	Other:	6 %	4 %	9 %	0 %
Total in group:		94 %	96 %	91 %	100 %
		69*	28*	35*	6*

## V0123 Frequency bands use - Other

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0013	SP0014	SP0015
Yes	Other:	16 %	36 %	3 %	0 %
Total in group:		84 %	64 %	97 %	100 %
		69*	28*	35*	6*

## V0124 Communications modes use - None

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes	Other:	22 %	4 %	29 %	67 %
Total in group:		78 %	96 %	71 %	33 %
		69*	28*	35*	6*

## V0125 Communications modes use - Amplitude Modulation (AM)

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes	Other:	20 %	25 %	20 %	0 %
Total in group:		80 %	75 %	80 %	100 %
		69*	28*	35*	6*

## V0126 Communications modes use - Data transmission

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes	Other:	35 %	39 %	31 %	33 %
Total in group:		65 %	61 %	69 %	67 %
		69*	28*	35*	6*

## V0127 Communications modes use - Demand Assigned Multiple Access (DAMA)

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes	Other:	29 %	32 %	31 %	0 %
Total in group:		71 %	68 %	69 %	100 %
		69*	28*	35*	6*

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes	Other:	29 %	39 %	26 %	0 %
	Total in group:	71 %	61 %	74 %	100 %
		69*	28*	35*	6*

V0129 Communications modes use - Have Quick

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes	Other:	19 %	14 %	20 %	33 %
	Total in group:	81 %	86 %	80 %	67 %
		69*	28*	35*	6*

V0130 Communications modes use - Independent Sideband (ISB)

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes	Other:	19 %	21 %	20 %	0 %
	Total in group:	81 %	79 %	80 %	100 %
		69*	28*	35*	6*

V0131 Communications modes use - Lower Sideband (LSB)

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes	Other:	22 %	25 %	20 %	17 %
	Total in group:	78 %	75 %	80 %	83 %
		69*	28*	35*	6*

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	gp0012	gp0013	SAMPLE	gp0014	gp0015
Yes	Other:	0 %	0 %	0 %	0 %	0 %	0 %
Total in group:		100 %	100 %	100 %	100 %	100 %	100 %
		69*	28*	35*	6*		

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	gp0012	gp0013	SAMPLE	gp0014	gp0015
Yes	Other:	36 %	43 %	34 %	17 %	17 %	17 %
Total in group:		64 %	57 %	66 %	83 %	83 %	83 %
		69*	28*	35*	6*		

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	gp0012	gp0013	SAMPLE	gp0014	gp0015
Yes	Other:	35 %	36 %	37 %	17 %	17 %	17 %
Total in group:		65 %	64 %	63 %	83 %	83 %	83 %
		69*	28*	35*	6*		

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	gp0012	gp0013	SAMPLE	gp0014	gp0015
Yes	Other:	20 %	32 %	14 %	0 %	0 %	0 %
Total in group:		80 %	68 %	86 %	100 %	100 %	100 %
		69*	28*	35*	6*		

## V0136 Mobile comm systems use/opr - None

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	gp0013	gp0014	gp0015		
Yes	Other:	28 %	4 %	40 %	67 %		
Total in group:		72 %	96 %	60 %	33 %		
		69*	28*	35*	6*		

## V0137 Mobile comm systems use/opr - International Maritime Satellites (INMARSAT)

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	gp0013	gp0014	gp0015		
Yes	Other:	7 %	14 %	3 %	0 %		
Total in group:		93 %	86 %	97 %	100 %		
		69*	28*	35*	6*		

## V0138 Mobile comm systems use/opr - Milstar

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	gp0013	gp0014	gp0015		
Yes	Other:	0 %	0 %	0 %	0 %		
Total in group:		100 %	100 %	100 %	100 %		
		69*	28*	35*	6*		

## V0139 Mobile comm systems use/opr - Radios, Backpack

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	gp0013	gp0014	gp0015		
Yes	Other:	26 %	39 %	17 %	17 %		
Total in group:		74 %	61 %	83 %	83 %		
		69*	28*	35*	6*		

## V0140 Mobile comm systems use/opr - Radios, Handheld

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014
Yes	Other:	36 %	50 %	26 %	33 %
Total in group:		64 %	50 %	74 %	67 %
		69*	28*	35*	6*

## V0141 Mobile comm systems use/opr - Satellite Communications (SATCOM)

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014
Yes	Other:	33 %	46 %	26 %	17 %
Total in group:		67 %	54 %	74 %	83 %
		69*	28*	35*	6*

## V0142 Mobile comm systems use/opr - Transceivers, Portable

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014
Yes	Other:	28 %	32 %	26 %	17 %
Total in group:		72 %	68 %	74 %	83 %
		69*	28*	35*	6*

## V0143 Mobile comm systems use/opr - Transceivers, Vehicular

		ANG			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014
Yes	Other:	7 %	7 %	6 %	17 %
Total in group:		93 %	93 %	94 %	83 %
		69*	28*	35*	6*

V0144 Mobile comm systems use/opr - Other

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes		19 %	39 %	6 %	0 %
Other:		81 %	61 %	94 %	100 %
Total in group:		69*	28*	35*	6*

V0145 Comm equip use/opr - None

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes		3 %	4 %	3 %	0 %
Other:		97 %	96 %	97 %	100 %
Total in group:		69*	28*	35*	6*

V0146 Comm equip use/opr - Advanced Data Controllers (ADCS)

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes		4 %	4 %	6 %	0 %
Other:		96 %	96 %	94 %	100 %
Total in group:		69*	28*	35*	6*

V0147 Comm equip use/opr - Automated Communications Management Systems (ACMSB)

		ANG	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0013	SP0014
Yes		0 %	0 %	0 %	0 %
Other:		100 %	100 %	100 %	100 %
Total in group:		69*	28*	35*	6*

## V0148 Comm equip use/opr - Cellular Phones

Interval Percentages		ANG	TOTAL	5-LVL	7-LVL	9-LVL
Yes	Other:	23 %	11 %	29 %	50 %	50 %
Total in group:		69*	28*	35*		6*

## V0149 Comm equip use/opr - Communication Planning Tools

Interval Percentages		ANG	TOTAL	5-LVL	7-LVL	9-LVL
Yes	Other:	12 %	11 %	11 %	17 %	83 %
Total in group:		69*	28*	35*		6*

## V0150 Comm equip use/opr - Computer Equipment

Interval Percentages		ANG	TOTAL	5-LVL	7-LVL	9-LVL
Yes	Other:	55 %	39 %	63 %	83 %	17 %
Total in group:		69*	28*	35*		6*

## V0151 Comm equip use/opr - Cryptographic Equipment

Interval Percentages		ANG	TOTAL	5-LVL	7-LVL	9-LVL
Yes	Other:	64 %	57 %	69 %	67 %	33 %
Total in group:		69*	28*	35*		6*

Interval Percentages		ANG	5-LVL	7-LVL	9-LVL
Yes	Other:	TOTAL SAMPLE SP0012	SP0013	SP0014	SP0015
Yes	Other:	10 % 90 % 69*	7 % 93 % 28*	6 % 94 % 35*	50 % 50 % 6*
Total in group:					

V0153 Comm equip use opr - Facsimile Equipment

Interval Percentages		ANG	5-LVL	7-LVL	9-LVL
Yes	Other:	TOTAL SAMPLE SP0012	SP0013	SP0014	SP0015
Yes	Other:	30 % 70 % 69*	21 % 79 % 28*	34 % 66 % 35*	50 % 50 % 6*
Total in group:					

V0154 Comm equip use opr - Global Positioning Satellites (GPSs)

Interval Percentages		ANG	5-LVL	7-LVL	9-LVL
Yes	Other:	TOTAL SAMPLE SP0012	SP0013	SP0014	SP0015
Yes	Other:	20 % 80 % 69*	7 % 93 % 28*	23 % 77 % 35*	67 % 33 % 6*
Total in group:					

V0155 Comm equip use opr - Land Mobile Radios (LMRs)

Interval Percentages		ANG	5-LVL	7-LVL	9-LVL
Yes	Other:	TOTAL SAMPLE SP0012	SP0013	SP0014	SP0015
Yes	Other:	35 % 65 % 69*	39 % 61 % 28*	29 % 71 % 35*	50 % 50 % 6*
Total in group:					

## V0156 Comm equip use opr - LMR Repeaters

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:		17 %	21 %	17 %	0 %	
Total in group:		69*	83 %	79 %	83 %	100 %	
			28*	35*	35*	6*	

## V0157 Comm equip use opr - Mobile Antenna Systems

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:		35 %	50 %	29 %	0 %	
Total in group:		65 %	50 %	71 %	100 %		
		69*	28*	35*	6*		

## V0158 Comm equip use opr - Printers

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:		64 %	50 %	69 %	100 %	
Total in group:		36 %	50 %	31 %	0 %		
		69*	28*	35*	6*		

## V0159 Comm equip use opr - Radio Equipment

		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0012	SP0013	SP0014	SP0015	
Yes	Other:		57 %	71 %	49 %	33 %	
Total in group:		43 %	29 %	51 %	67 %		
		69*	28*	35*	6*		

## V0160 Comm equip use/opr - Radio Teletype Equipment

Interval Percentages		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
	SAMPLE	SP0012					
Yes	Other:	14 %	21 %	11 %	0 %		
Total in group:		86 %	79 %	89 %	100 %		
		69*	28*	35*	6*		

## V0161 Comm equip use/opr - Remote Monitoring Systems

Interval Percentages		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
	SAMPLE	SP0012					
Yes	Other:	13 %	18 %	11 %	0 %		
Total in group:		87 %	82 %	89 %	100 %		
		69*	28*	35*	6*		

## V0162 Comm equip use/opr - Satellite Communications Equipment

Interval Percentages		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
	SAMPLE	SP0012					
Yes	Other:	39 %	57 %	29 %	17 %		
Total in group:		61 %	43 %	71 %	83 %		
		69*	28*	35*	6*		

## V0163 Comm equip use/opr - Scanners

Interval Percentages		ANG			9-LVL		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
	SAMPLE	SP0012					
Yes	Other:	14 %	18 %	9 %	33 %		
Total in group:		86 %	82 %	91 %	67 %		
		69*	28*	35*	6*		

## V0164 Comm equip use opr - Secured Telephones

ANG			9-LVL		
TOTAL			7-LVL		
SAMPLE			gp0014		
		gp0012			gp0015
Yes	Other:	52 % 48 % 69*	29 % 71 % 28*	63 % 37 % 35*	100 % 0 % 6*
Total in group:					

## V0165 Comm equip use opr - Switchboard Equipment

ANG			9-LVL		
TOTAL			7-LVL		
SAMPLE			gp0014		
		gp0012			gp0015
Yes	Other:	6 % 94 % 69*	7 % 93 % 28*	6 % 94 % 35*	0 % 100 % 6*
Total in group:					

## V0166 Comm equip use opr - Tape Recorders

ANG			9-LVL		
TOTAL			7-LVL		
SAMPLE			gp0014		
		gp0012			gp0015
Yes	Other:	1 % 99 % 69*	4 % 96 % 28*	0 % 100 % 35*	0 % 100 % 6*
Total in group:					

## V0167 Comm equip use opr - Telephones

ANG			9-LVL		
TOTAL			7-LVL		
SAMPLE			gp0014		
		gp0012			gp0015
Yes	Other:	62 % 38 % 69*	43 % 57 % 28*	71 % 29 % 35*	100 % 0 % 6*
Total in group:					

## V0169 Comm equip use/opr - Transmission Security (TRANSEC) Equipment

Interval Percentages		ANG	TOTAL	5-LVL	7-LVL	9-LVL
			SAMPLE			
			SP0012			
Yes	Other:			SP0013	SP0014	SP0015
Total in group:				3 %	7 %	0 %
				97 %	93 %	100 %
				69*	28*	35*
						100 %
						6*

## V0170 Comm equip use/opr - Other

Interval Percentages		ANG	TOTAL	5-LVL	7-LVL	9-LVL
			SAMPLE			
			SP0012			
Yes	Other:			SP0013	SP0014	SP0015
Total in group:				13 %	14 %	11 %
				87 %	86 %	89 %
				69*	28*	35*
						17 %
						83 %
						6*

Radio Communications Systems  
Reported AFSC(s) : 3C1X1

----- Variable/Group Distributions -----

The percent of reported group members who use, maintain or operate various types of equipment are presented under the column headings for the appropriate group. This percent using, maintaining, or operating equipment may be valuable in determining the relevancy of training and testing on or about these types of equipment.

Reports on the following groups were requested:

SP0016: All Air Reserve Airmen with DAFSC 3C1X1	(n = 87)
SP0017: All Air Reserve Airmen with DAFSC 3C151	(n = 35)
SP0018: All Air Reserve Airmen with DAFSC 3C171	(n = 47)
SP0019: All Air Reserve Airmen with DAFSC 3C191	(n = 5)

V0102 Fixed communication sys use/oper - None

		AFRC	5-LVL	7-LVL	9-LVL
		TOTAL	SAMPLE	SP0018	SP0019
Interval Percentages		SP0016	SP0017		
Yes		69 %	63 %	72 %	80 %
Other:		31 %	37 %	28 %	20 %
Total in group:		87*	35*	47*	5*

V0103 Fixed communication sys use/oper - AFSATCOM

		AFRC	5-LVL	7-LVL	9-LVL
		TOTAL	SAMPLE	SP0018	SP0019
Interval Percentages		SP0016	SP0017		
Yes		13 %	14 %	13 %	0 %
Other:		87 %	86 %	87 %	100 %
Total in group:		87*	35*	47*	5*

## V0104 Fixed communication sys use/oper - Global HF Systems

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	SP0016	SP0018	SAMPLE	SP0016	SP0019
Yes	Other:	20 %	17 %	23 %	0 %	100 %	
Total in group:		80 %	83 %	77 %	100 %		
		87*	35*	47*	5*		

## V0105 Fixed communication sys use/oper - Global Weather Intercept Program (GWIP)

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	SP0016	SP0018	SAMPLE	SP0016	SP0019
Yes	Other:	0 %	0 %	0 %	0 %	0 %	
Total in group:		100 %	100 %	100 %	100 %	100 %	
		87*	35*	47*	5*		

## V0106 Fixed communication sys use/oper - Milstar

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	SP0016	SP0018	SAMPLE	SP0016	SP0019
Yes	Other:	1 %	3 %	0 %	0 %	100 %	
Total in group:		99 %	97 %	100 %	100 %	100 %	
		87*	35*	47*	5*		

## V0107 Fixed communication sys use/oper - SITFAA

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	SP0016	SP0018	SAMPLE	SP0016	SP0019
Yes	Other:	0 %	0 %	0 %	0 %	100 %	
Total in group:		100 %	100 %	100 %	100 %	100 %	
		87*	35*	47*	5*		

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	gp0016	gp0017	SAMPLE	gp0018	gp0019
Yes	Other:	7 %	11 %	4 %	0 %		
	Total in group:	93 %	89 %	96 %	100 %		
		87*	35*	47*	5*		

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	gp0016	gp0017	SAMPLE	gp0018	gp0019
Yes	Other:	29 %	29 %	26 %	60 %		
	Total in group:	71 %	71 %	74 %	40 %		
		87*	35*	47*	5*		

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	gp0016	gp0017	SAMPLE	gp0018	gp0019
Yes	Other:	36 %	34 %	38 %	20 %		
	Total in group:	64 %	66 %	62 %	80 %		
		87*	35*	47*	5*		

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	gp0016	gp0017	SAMPLE	gp0018	gp0019
Yes	Other:	59 %	54 %	66 %	20 %		
	Total in group:	41 %	46 %	34 %	80 %		
		87*	35*	47*	5*		

Interval Percentages		AFRC	5-LVL	7-LVL	9-LVL
Yes	Other:	TOTAL	1 %	3 %	0 %
Total in group:		SAMPLE	99 %	97 %	100 %
		SP0016	87*	35*	47*

Interval Percentages		AFRC	5-LVL	7-LVL	9-LVL
Yes	Other:	TOTAL	5 %	3 %	6 %
Total in group:		SAMPLE	95 %	97 %	94 %
		SP0016	87*	35*	47*

Interval Percentages		AFRC	5-LVL	7-LVL	9-LVL
Yes	Other:	TOTAL	0 %	0 %	0 %
Total in group:		SAMPLE	100 %	100 %	100 %
		SP0016	87*	35*	47*

Interval Percentages		AFRC	5-LVL	7-LVL	9-LVL
Yes	Other:	TOTAL	7 %	9 %	6 %
Total in group:		SAMPLE	93 %	91 %	94 %
		SP0016	87*	35*	47*

## V0116 Deployable communications systems use/operate - Other

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
		SAMPLE	SP0016	SP0017	SP0018	SP0019	
Yes	Other:	16 %	17 %	15 %	20 %		
	Total in group:	84 %	83 %	85 %	80 %		
		87*	35*	47*	5*		

## V0117 Frequency bands use - None

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
		SAMPLE	SP0016	SP0017	SP0018	SP0019	
Yes	Other:	24 %	23 %	26 %	20 %		
	Total in group:	76 %	77 %	74 %	80 %		
		87*	35*	47*	5*		

## V0118 Frequency bands use - HF

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
		SAMPLE	SP0016	SP0017	SP0018	SP0019	
Yes	Other:	71 %	77 %	66 %	80 %		
	Total in group:	29 %	23 %	34 %	20 %		
		87*	35*	47*	5*		

## V0119 Frequency bands use - Very High Frequency (VHF)

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
		SAMPLE	SP0016	SP0017	SP0018	SP0019	
Yes	Other:	38 %	40 %	38 %	20 %		
	Total in group:	62 %	60 %	62 %	80 %		
		87*	35*	47*	5*		

## V0120 Frequency bands use - Ultrahigh Frequency (UHF)

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0017	SAMPLE	SP0018	SP0019
Yes	Other:	36 %	46 %	30 %	20 %		
	Total in group:	64 %	54 %	70 %	80 %		
		87*	35*	47*	5*		

## V0121 Frequency bands use - Super High Frequency (SHF)

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0017	SAMPLE	SP0018	SP0019
Yes	Other:	9 %	11 %	9 %	0 %		
	Total in group:	91 %	89 %	91 %	100 %		
		87*	35*	47*	5*		

## V0122 Frequency bands use - Extremely High Frequency (EHF)

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0017	SAMPLE	SP0018	SP0019
Yes	Other:	5 %	9 %	2 %	0 %		
	Total in group:	95 %	91 %	98 %	100 %		
		87*	35*	47*	5*		

## V0123 Frequency bands use - Other

		AFRC			AFRC		
		TOTAL	5-LVL	7-LVL	TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0017	SAMPLE	SP0018	SP0019
Yes	Other:	3 %	0 %	6 %	0 %		
	Total in group:	97 %	100 %	94 %	100 %		
		87*	35*	47*	5*		

## V0124 Communications modes use - None

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SP0016	SP0018	SP0019
Yes	Other:	16 %	14 %	17 %	20 %
		84 %	86 %	83 %	80 %
Total in group:		87*	35*	47*	5*

## V0125 Communications modes use - Amplitude Modulation (AM)

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SP0016	SP0018	SP0019
Yes	Other:	32 %	34 %	34 %	0 %
		68 %	66 %	66 %	100 %
Total in group:		87*	35*	47*	5*

## V0126 Communications modes use - Data Transmission

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SP0016	SP0018	SP0019
Yes	Other:	48 %	60 %	40 %	40 %
		52 %	40 %	60 %	60 %
Total in group:		87*	35*	47*	5*

## V0127 Communications modes use - Demand Assigned Multiple Access (DAMA)

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SP0016	SP0018	SP0019
Yes	Other:	44 %	46 %	45 %	20 %
		56 %	54 %	55 %	80 %
Total in group:		87*	35*	47*	5*

## V0128 Communications modes use - Frequency Modulation (FM)

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0016	SP0017	SP0018	SP0019	
Yes	Other:	41 %	46 %	43 %	0 %		
		59 %	54 %	57 %	100 %		
Total in group:		87*	35*	47*	5*		

## V0129 Communications modes use - Have Quick

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0016	SP0017	SP0018	SP0019	
Yes	Other:	20 %	20 %	19 %	20 %		
		80 %	80 %	81 %	80 %		
Total in group:		87*	35*	47*	5*		

## V0130 Communications modes use - Independent Sideband (ISB)

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0016	SP0017	SP0018	SP0019	
Yes	Other:	7 %	11 %	4 %	0 %		
		93 %	89 %	96 %	100 %		
Total in group:		87*	35*	47*	5*		

## V0131 Communications modes use - Lower Sideband (LSB)

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0016	SP0017	SP0018	SP0019	
Yes	Other:	26 %	26 %	30 %	0 %		
		74 %	74 %	70 %	100 %		
Total in group:		87*	35*	47*	5*		

## V0132 Communications modes use - Milstar Waveform

		AFRC		
		TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	SP0016	SP0018
Yes	Other:	1 %	3 %	0 %
Total in group:		99 % 87*	97 % 35*	100 % 47*
				0 % 100 % 5*

## V0133 Communications modes use - Single Sideband (SSB)

		AFRC		
		TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	SP0016	SP0018
Yes	Other:	40 %	46 %	40 %
Total in group:		60 % 87*	54 % 35*	60 % 47*
				0 % 100 % 5*

## V0134 Communications modes use - Upper Sideband (USB)

		AFRC		
		TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	SP0016	SP0018
Yes	Other:	47 %	43 %	49 %
Total in group:		53 % 87*	57 % 35*	51 % 47*
				60 % 40 % 5*

## V0135 Communications modes use - Other

		AFRC		
		TOTAL	5-LVL	7-LVL
Interval Percentages		SAMPLE	SP0016	SP0018
Yes	Other:	5 %	3 %	6 %
Total in group:		95 % 87*	97 % 35*	94 % 47*
				0 % 100 % 5*

## V0136 Mobile comm systems use/opr - None

		AFRC	TOTAL	5-LVL	7-LVL	9-LVL
		SAMPLE	SP0016	SP0017	SP0018	SP0019
Yes	Other:	25 %	23 %	23 %	60 %	
	Total in group:	75 %	77 %	77 %	40 %	
		87*	35*	47*	5*	

## V0137 Mobile comm systems use/opr - International Maritime Satellites (INMARSAT)

		AFRC	TOTAL	5-LVL	7-LVL	9-LVL
		SAMPLE	SP0016	SP0017	SP0018	SP0019
Yes	Other:	29 %	31 %	30 %	0 %	
	Total in group:	71 %	69 %	70 %	100 %	
		87*	35*	47*	5*	

## V0138 Mobile comm systems use/opr - Milstar

		AFRC	TOTAL	5-LVL	7-LVL	9-LVL
		SAMPLE	SP0016	SP0017	SP0018	SP0019
Yes	Other:	0 %	0 %	0 %	0 %	
	Total in group:	100 %	100 %	100 %	100 %	
		87*	35*	47*	5*	

## V0139 Mobile comm systems use/opr - Radios, Backpack

		AFRC	TOTAL	5-LVL	7-LVL	9-LVL
		SAMPLE	SP0016	SP0017	SP0018	SP0019
Yes	Other:	47 %	54 %	45 %	20 %	
	Total in group:	53 %	46 %	55 %	80 %	
		87*	35*	47*	5*	

## V0140 Mobile comm systems use/opr - Radios, Handheld

		AFRC		
		TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0018
Interval	Percentages			SP0019
Yes	Other:	60 %	63 %	62 %
		40 %	37 %	38 %
Total in group:		87*	35*	47*
				20 %
				80 %
				5*

## V0141 Mobile comm systems use/opr - Satellite Communications (SATCOM)

		AFRC		
		TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0018
Interval	Percentages			SP0019
Yes	Other:	47 %	51 %	47 %
		53 %	49 %	53 %
Total in group:		87*	35*	47*
				20 %
				80 %
				5*

## V0142 Mobile comm systems use/opr - Transceivers, Portable

		AFRC		
		TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0018
Interval	Percentages			SP0019
Yes	Other:	53 %	54 %	57 %
		47 %	46 %	43 %
Total in group:		87*	35*	47*
				0 %
				100 %
				5*

## V0143 Mobile comm systems use/opr - Transceivers, Vehicular

		AFRC		
		TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0018
Interval	Percentages			SP0019
Yes	Other:	25 %	26 %	28 %
		75 %	74 %	72 %
Total in group:		87*	35*	47*
				0 %
				100 %
				5*

V0144 Mobile comm systems use/opr - Other

		AFRC		
		TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0018
Yes	Other:	5 %	6 %	4 %
Total in group:		95 %	94 %	96 %
		87*	35*	47*
				0 %
				100 %
				5*

V0145 Comm equip use/opr - None

		AFRC		
		TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0018
Yes	Other:	5 %	9 %	2 %
Total in group:		95 %	91 %	98 %
		87*	35*	47*
				0 %
				100 %
				5*

V0146 Comm equip use/opr - Advanced Data Controllers (ADCS)

		AFRC		
		TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0018
Yes	Other:	5 %	3 %	6 %
Total in group:		95 %	97 %	94 %
		87*	35*	47*
				0 %
				100 %
				5*

V0147 Comm equip use/opr - Automated Communications Management Systems (ACMSS)

		AFRC		
		TOTAL	5-LVL	7-LVL
		SAMPLE	SP0016	SP0018
Yes	Other:	3 %	0 %	6 %
Total in group:		97 %	100 %	94 %
		87*	35*	47*
				0 %
				100 %
				5*

## V0148 Comm equip use opr - Cellular Phones

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0016	SP0018	SP0019		
Yes	Other:		33 %	23 %	43 %	20 %	
Total in group:		87*	67 %	77 %	57 %	80 %	
			87*	35*	47*	5*	

## V0149 Comm equip use opr - Communication Planning Tools

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0016	SP0018	SP0019		
Yes	Other:		22 %	20 %	26 %	0 %	
Total in group:		87*	78 %	80 %	74 %	100 %	
		87*	35*	47*	5*		

## V0150 Comm equip use opr - Computer Equipment

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0016	SP0018	SP0019		
Yes	Other:		69 %	66 %	74 %	40 %	
Total in group:		87*	31 %	34 %	26 %	60 %	
		87*	35*	47*	5*		

## V0151 Comm equip use opr - Cryptographic Equipment

		AFRC			9-LVL		
		TOTAL	5-LVL	7-LVL	9-LVL		
Interval Percentages		SAMPLE	SP0016	SP0018	SP0019		
Yes	Other:		64 %	63 %	68 %	40 %	
Total in group:		87*	36 %	37 %	32 %	60 %	
		87*	35*	47*	5*		

## V0153 Comm equip use/opr - Facsimile Equipment

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0017	SP0018
Yes		11 %	9 %	15 %	0 %
Other:		89 %	91 %	85 %	100 %
Total in group:		87*	35*	47*	5*

## V0154 Comm equip use/opr - Global Positioning Satellites (GPSs)

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0017	SP0018
Yes		43 %	43 %	45 %	20 %
Other:		57 %	57 %	55 %	80 %
Total in group:		87*	35*	47*	5*

## V0155 Comm equip use/opr - Land Mobile Radios (LMRs)

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0017	SP0018
Yes		17 %	11 %	21 %	20 %
Other:		83 %	89 %	79 %	80 %
Total in group:		87*	35*	47*	5*

## V0152 Comm equip use/opr - Defense Message Systems (DMSS)

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SAMPLE	SP0017	SP0018
Yes		69 %	71 %	70 %	40 %
Other:		31 %	29 %	30 %	60 %
Total in group:		87*	35*	47*	5*

Interval Percentages			AFRC	5-LVL	7-LVL	9-LVL
Yes	Other:	Total in group:	TOTAL	SAMPLE	SP0016	SP0017
39 %	34 %	35*	61 %	66 %	SP0018	SP0019
61 %	66 %		87*	47*		
					20 %	80 %
					80 %	5*

V0157 Comm equip use/opr - Mobile Antenna Systems

Interval Percentages			AFRC	5-LVL	7-LVL	9-LVL
Yes	Other:	Total in group:	TOTAL	SAMPLE	SP0016	SP0017
60 %	57 %	35*	40 %	43 %	SP0018	SP0019
40 %	43 %		87*	35*		
					40 %	60 %
					60 %	5*

V0158 Comm equip use/opr - Printers

Interval Percentages			AFRC	5-LVL	7-LVL	9-LVL
Yes	Other:	Total in group:	TOTAL	SAMPLE	SP0016	SP0017
80 %	80 %	35*	20 %	20 %	SP0018	SP0019
20 %	20 %		87*	35*		
					80 %	20 %
					20 %	5*

V0159 Comm equip use/opr - Radio Equipment

Interval Percentages			AFRC	5-LVL	7-LVL	9-LVL
Yes	Other:	Total in group:	TOTAL	SAMPLE	SP0016	SP0017
70 %	74 %	35*	30 %	26 %	SP0018	SP0019
30 %	26 %		87*	35*		
					68 %	60 %
					32 %	40 %
					5*	5*

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SP0017	SP0018	SP0019
Yes		13 %	11 %	15 %	0 %
Other:		87 %	89 %	85 %	100 %
Total in group:		87*	35*	47*	5*

V0161 Comm equip use/opr - Remote Monitoring Systems

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SP0017	SP0018	SP0019
Yes		17 %	26 %	13 %	0 %
Other:		83 %	74 %	87 %	100 %
Total in group:		87*	35*	47*	5*

V0162 Comm equip use/opr - Satellite Communications Equipment

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SP0017	SP0018	SP0019
Yes		49 %	46 %	55 %	20 %
Other:		51 %	54 %	45 %	80 %
Total in group:		87*	35*	47*	5*

V0163 Comm equip use/opr - Scanners

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL	SP0017	SP0018	SP0019
Yes		21 %	17 %	26 %	0 %
Other:		79 %	83 %	74 %	100 %
Total in group:		87*	35*	47*	5*

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL			
		SAMPLE			
Yes	Other:	SP0016	SP0017	SP0018	SP0019
Yes	Other:	75 %	63 %	85 %	60 %
Yes	Other:	25 %	37 %	15 %	40 %
Total in group:		87*	35*	47*	5*

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL			
		SAMPLE			
Yes	Other:	SP0016	SP0017	SP0018	SP0019
Yes	Other:	5 %	6 %	4 %	0 %
Yes	Other:	95 %	94 %	96 %	100 %
Total in group:		87*	35*	47*	5*

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL			
		SAMPLE			
Yes	Other:	SP0016	SP0017	SP0018	SP0019
Yes	Other:	7 %	3 %	11 %	0 %
Yes	Other:	93 %	97 %	89 %	100 %
Total in group:		87*	35*	47*	5*

		AFRC	5-LVL	7-LVL	9-LVL
Interval Percentages		TOTAL			
		SAMPLE			
Yes	Other:	SP0016	SP0017	SP0018	SP0019
Yes	Other:	75 %	63 %	83 %	80 %
Yes	Other:	25 %	37 %	17 %	20 %
Total in group:		87*	35*	47*	5*

## V0168 Comm equip use opr - Time Distribution Subsystem Preprocessors (TDSPPS)

		AFRC			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0016	SP0018	SP0019
Yes	Other:	0 %	0 %	0 %	0 %
Total in group:		100 %	100 %	100 %	100 %
		87*	35*	47*	5*

## V0169 Comm equip use opr - Transmission Security (TRANSEC) Equipment

		AFRC			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0016	SP0018	SP0019
Yes	Other:	20 %	20 %	21 %	0 %
Total in group:		80 %	80 %	79 %	100 %
		87*	35*	47*	5*

## V0170 Comm equip use opr - Other

		AFRC			
		TOTAL	5-LVL	7-LVL	9-LVL
Interval Percentages		SAMPLE	SP0016	SP0018	SP0019
Yes	Other:	6 %	6 %	4 %	20 %
Total in group:		94 %	94 %	96 %	80 %
		87*	35*	47*	5*